

Become familiar prevention of postendoscopic bleeding Prevention and early recognition of intestinal perforation Other complications Sedation issues (for discussion?) Take home messages

Endo Skills 2023: Faculty/Presenter Disclosure

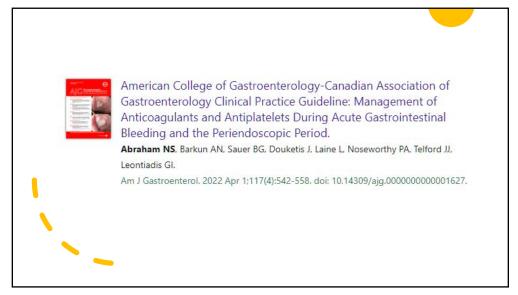
- · Presenter: Daniel Sadowski
- Relationships that may introduce potential bias and/or conflict of interest:
 - Grants/Research Support: None
 - · Speakers Bureau/Honoraria: None
 - · Consulting Fees: None
 - Other: Quality Lead Alberta Colorectal Cancer Screening Program

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Case 1

- 70 yo male referred for colonoscopy because of positive FIT
- History of non-valvular A.Fib. CHADS = 2
- On ASA 81 mg daily
- On Xaralto 20 mg daily with dinner
- CRF sCreat 200 umol/L
- How would you manage this patient's medications perioperatively?





	High-risk Procedures	Low Risk Procedures
	Polypectomy/ colonoscopy	Diagnostic (EGD, colonoscopy, flexible sigmoidoscopy) including biopsy
	Biliary or pancreatic sphincterotomy	ERCP without sphincterotomy
	Pneumatic or bougie dilation	EUS without FNA
	PEG placement	Enteroscopy and diagnostic balloon- assisted enteroscopy
	Therapeutic balloon-assisted enteroscopy	Capsule endoscopy
1	EUS with FNA	
	Enteral stent deployment (without dilation)	ULTRA- HIGH RISK:
	Tumor ablation by any technique	Endoscopic submucosal resection
	Cystogastrostomy	EMR of lesions >2cm
	Treatment of varices	POEM



Risk of Thromboembolism if anticoagulation is withheld

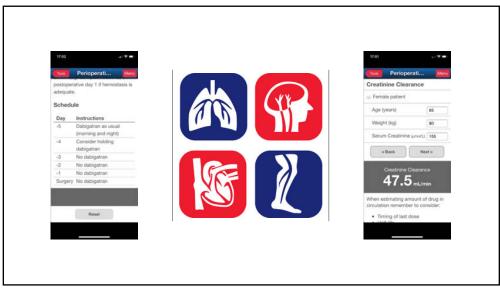
- AF with CHADS2 Score 0-2
- · Bioprosthetic valve or mechanical aortic valve
- Previous remote DVT (> 3 months)

• High

- Recent CVA/TIA (<3 months)
- AF with CHADS2 ->2
- DVT/PE in last 3 months
- · Mechanical mitral valve
- Severe/multiple thrombophillic abnormalities
- Recent placement of coronary stent (<12 months DES, <1 month for bare metal stent)

Bleeding vs. Thrombosis

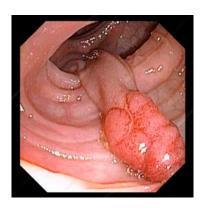
	Low Procedural Bleeding Risk	High Procedural Bleeding Risk
Low risk of Thrombosis or Embolism	Continue anti-thrombotic agents	Stop anti-thrombotic agents
High Risk of Thrombosis or Embolism	Continue anti-thrombotic agents	Stop anti-thrombotic agents (consider bridge therapy)

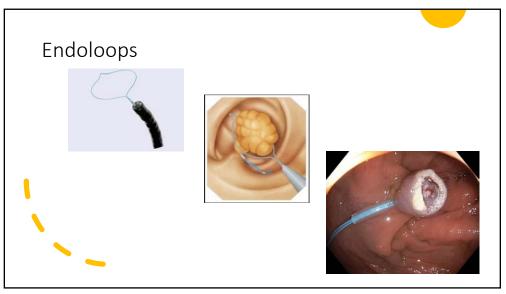


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Case 1

- ASA was continued for procedure
- Xaralto was held for 48 hours prior to the procedure
- You find a 2 cm pedunculated polyp in the descending colon
- Your next steps?

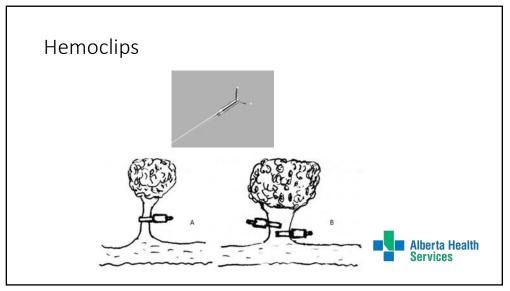




Endoloops

- Should be considered for large (>2 cm pedunculated polyps)
- Contraindicated for sessile and thin stalk polyps
- Can be difficult to apply pre-polypectomy:
 - Short stalk
 - Needs to be well away from the polyp head (entrapping large polyp head common)
 - Visibility of stalk base can be poor with large polyp size



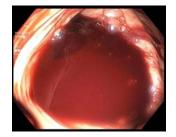


Hemoclips

- For large pedunculated polyps, it can be difficult to grasp the entire thickness of the stalk
- Contact between electrocautery snare and clip can produce wall burns
- ?closure of large mucosal defects to prevent delayed bleeding



You decide to take off the polyp with hot snare. Polypectomy successful but pulsatile bleeding observed from the residual stalk





• Immediate Post Polyp Bleeding – what to do?

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Immediate Post
Polyp Bleeding in a
pedunculated
polyp:
what to do?

Reposition patient to achieve good visibility

- regrasp the pedicle with a snare and hold pressure on the residual stalk – may require up to 5 minutes of pressure
- endoscopic clip placement
- submucosal injection of epinephrine
- placement of endoloop
- for retracted stalk pedicle thermal coagulation

Case 1 (Alternate Universe)

- ASA was continued for procedure
- Xaralto was held for 48 hours prior to the procedure
- You find a 2 cm sessile polyp in the descending colon



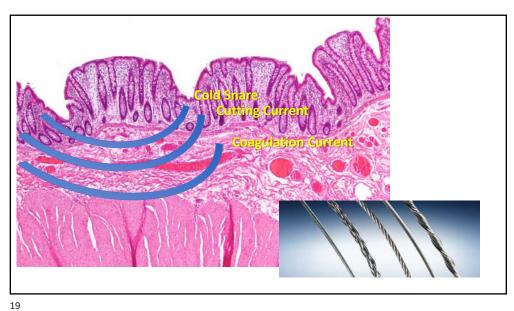


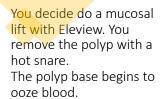
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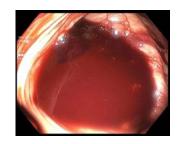
Which polypectomy techniques for sessile polyps will result in less bleeding?

- Sub-mucosal lift
- Cutting vs. coag current
- Epinephrine
- Clips
- Choice of snare?

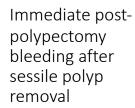








• Immediate Post Polyp Bleeding – what to do?

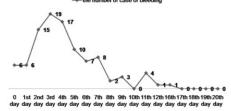


- Reposition patient
- endoscopic clip placement
- thermal coagulation
- combine with epinephrine injection

Delayed post polypectomy bleeding:

the number and time interval of case of bleeding

the number of case of bleeding

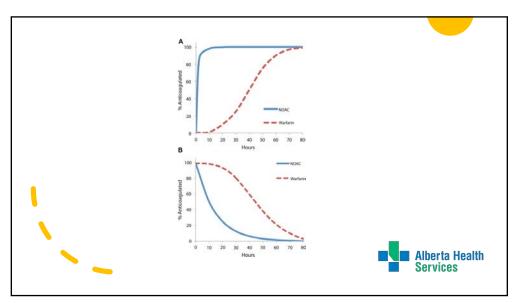


Zhang et al PLoS One. 2014; 9(10): e108290.

Use of hemoclips to prevent delayed PP bleeding

- Lack of evidence for efficacy for polyps < 1 cm
 - I sometimes use for patients on DOACs
- I typically place clips resection of polyps ≥2 cm especially if they are located in the right colon
- Epinephrine injection does not prevent immediate or delayed PP bleeding

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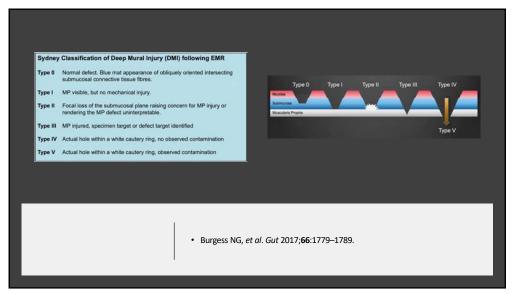
Case 2

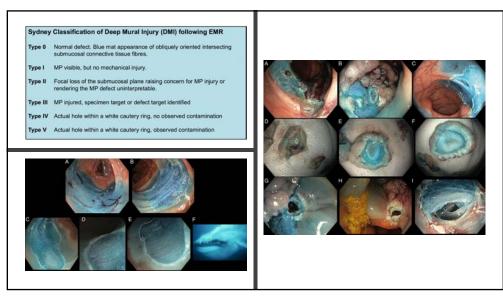
• You do a colonoscopy for a 65 yo male with family history of colon cancer:



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Cold Snare Resection Technique

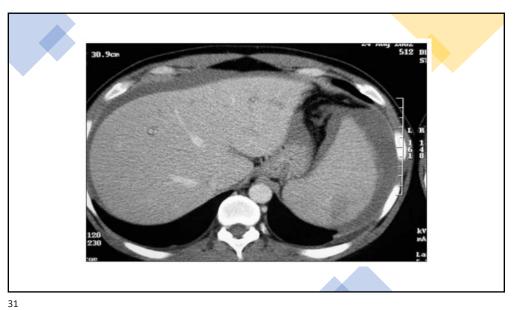


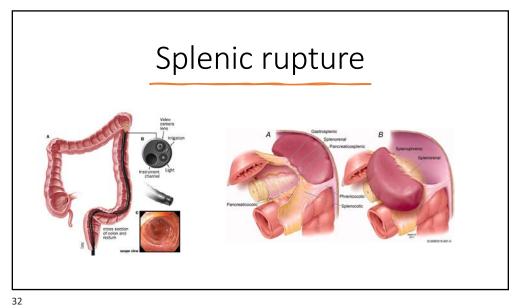
Burgess NG, et al. Gut 2017;66:1779-1789.

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Case 3

- You perform a colonoscopy on a 23 year old female for diarrhea and weight loss. BMI 18.
- 5 minutes into the procedure, the patient experiences some discomfort
- You administer another dose of fentanyl and midazolam
- You complete the procedure to the terminal ileum with the patient on her left side
- No endoscopic findings. Patient requires another dose of fentanyl in recovery before discharge home.
- The patient calls your office the next day stating that she has significant pain in her epigastrium and back. She feels very weak.
- · You would:
 - Tell her to go on clear fluid diet and wait to have a good bowel movement?
 - Prescribe buscopan?
 - Arrange to see her in your office the next day?
 - Arrange to meet in ER and arrange for abdominal CT scan?





Splenic rupture - prevention

- Reposition patient onto back in decending colon
- Reduce sigmoid loop as soon as possible
- Avoid mucosal slide-by at the splenic flexure

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