

Faculty/Presenter Disclosure

Presenter: Robert Bailey

Relationships that may introduce potential bias and/or conflict of interest:

- Grants/Research Support: Intercept Pharma, Tobira Therapeutic, Abbvie, Inventiva
- Advisory Board Member: Gilead, Abbvie, Takeda, Merck, Janssen

Faculty/Presenter Disclosure

Presenter: Jonathan Love

Relationships that may introduce potential bias and/or conflict of interest:

- Grants/Research Support:
- Speakers Bureau/Honoraria: Abbvie, Pendopharm
- Consulting Fees:
- Other: Grand River Cancer Clinic , Waterloo Wellington Endoscopy Lead









Electrosurgical Units

- Electrosurgical units convert energy from high frequency currents into heat. When these currents flow from a snare wire through tissue, the high density current at the point of contact results in a sharp rise in tissue temperature
- <u>Cutting currents</u> are produced at temperatures greater than 100 °C, which leads to boiling of cellular water and subsequent cellular rupture
- <u>Coagulation currents</u> are produced at temperatures of 70 100 °C. This leads to dehydration and contracting of cells, without rupture
- Blended currents, the ratio of cells cut to those coagulated, can be varied
- The use of the micro processor controlled electrocautery generator for polypectomy is best using the "Endocut" setting

Don't

- <u>Don't use coagulation current alone</u> for polypectomy as there will be an increased risk of post procedural bleeding. Tissue thermal injury is more likely as is perforation
- <u>Don't use pure cutting current alone</u> for pedunculated polypectomy as there is an increased risk of intra-procedural bleeding





What Snare Would You Use? **MONOFILAMENT OR POLYFILAMENT**. • Structurally, snares are either monofilament or polyfilament

- The potential advantage of monofilament snares is that the snare wire is thin (< 0.4 mm), so current density is greater, tissue transection swifter, and unintentional diathermic injury to the colonic wall less likely
- The potential advantage of polyfilament snares is that the wire is thicker (0.4 mm – 0.5 mm) and thus they may better grip the mucosal surface enabling more effective capture of flat polyps

What Snare Would You Use?

- Limited data exist that compare the roles of different types of snares
- Use the snares you are familiar using and whose performance characteristics are known
- Snare size should be appropriately selected depending on the size and morphology of the polyp
- Snares come in different shapes (circular, oval, hexagonal, etc.) but no clear benefit of one shape over the other has been demonstrated.

European Society of Gastrointestinal Endoscopy Recommends

Hot snare polypectomy for pedunculated polyps To prevent bleeding in pedunculated colorectal polyps with head ≥ 20 mm or a stalk≥10mm in diameter, pre-treatment of the stalk with injection of dilute adrenaline and/or mechanical hemostasis



Clips pre-cut and post-cut



Endoscopy 2017







Clips
Apply one or more endoscopic clips at the base of the stalk prior to polypectomy
The main <u>advantage</u> of this approach is that endoscopic clips are usually easy to deploy
The <u>disadvantages</u> of this approach include multiple clips often required to achieve haemostasis of large stalks, and indeed may not be feasible for some particularly large polyps, as the endoscopic clips may not be of a sufficient size to secure the stalk, even when multiple clips are applied
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Comparison Of Prophylactic Clip And Endoloop Application For The Prevention Of Post polypectomy Bleeding In Pedunculated Colonic Polyps: A Prospective, Randomized, Multicenter Study

The application of a prophylactic clip is as effective and safe as an endoloop in the prevention of post polypectomy bleeding in large pedunculated colonic polyps

Endoscopy 2014







