

Products	Snares			
Procedural Area	Polypectomy			
Article	A blinded comparison of the safety and efficacy of hot biopsy forceps electrocauterization and conventional snare polypectomy for diminutive colonic polypectomy in a porcine model.			
Publication	GIE Journal (2013; 77: 484-90)			
URL	http://www.giejournal.org/article/S0016-5107(12)02741-1/abstract			
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Purpose	Standardized, randomized, and controlled trial in a porcine model to evaluate the safety and efficacy of hot biopsy forceps compared with conventional snare polypectomy.			
Key Points	 10 living porcine models with artificial lesions were used to analyze polypectomy resections between hot biopsy forceps (HBF) and conventional snare polypectomy (CSP). HBF is often preferred over snare-based techniques for diminutive polypectomy even though it has been linked to incomplete resection, perforation, delayed bleeding, and serositis. Eighty-two resections were evenly split between HBF and CSP techniques and the histological specimens were analyzed for depth of cut and thermal damage. Visible mucosa remained on 14% of the resection sites with HBF while all CSP resections contained complete mucosal resection and a mean submucosal layer. 21% of the specimens removed with HBF were completely ablated and could not be interpreted by pathology while all CSP specimens were interpretable. Additionally, 62% of the HBF were crushed or affected by diathermy artifact. The difficulty with histological assessment on the HBF specimens could negatively impact cancer prevention and planning. Depth of Thermal Injury at Polypectomy Sites Injury CSP (N=41) HBF (N=41) Partial MP Necrosis 1 (2%) 9 (22%) Eull Thickness MP Necrosis 1 (2%) 9 (22%) 			
Conclusions	Histological Serositis HBF resulted in partial and full lesions which is 10 times higher resulting in an increased risk of technique. The histological assessment of specimens from forceps leads to a higher rate of incomplete resulting and perforation biopsy forceps technique is imprecise, less snare polypectomy.	4 (10%) thickness muscularis p relative to CSP and s of large vessel bleedin om this study revealed esection, a higher numl on. The authors of th effective, and more h	13 (32%) propria (MP) necrosis i erositis was 3 times hi ig and perforation wh that polypectomy usin ber of damaged/ablate is study concluded azardous relative to o	in 56% of the igher for HBF en using this ng hot biopsy ad specimens, that the hot conventional
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