

# Incidence of advanced adenoma detection and outcomes in patients referred for endoscopic resection of large colon polyps and an assessment of appropriate documentation of procedure difficulty in referral reports



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## INTRODUCTION

- Endoscopic resection of large colon polyps
  has emerged as the preferred treatment
  option for large polyps detected during
  colonoscopy
- There is insufficient data regarding the incidence of advanced adenoma detection during therapeutic colonoscopy for polyp resection
- This study aims to report our experience
   with additional advanced adenoma
   detection during large colon polyp resections

# METHODS

- Retrospective chart review
- Patients referred for endoscopic resection of large colon polyps (Sep. 2018 Apr. 2022)
- Referral procedure reports reviewed
- Adenomas detected
- Procedure difficulty
- Data collected
- Demographics
- Family history (FH) of colon cancer
- Incidence of adenoma detected
- Type advanced adenoma detected and location
- Descriptive statistics and multivariate
   logistic regression analysis performed

## RESULTS

- 432 patients referred for endoscopic resection of large colon polyp
- •372 patients had a large polyp requiring endoscopic mucosal resection (EMR)
  - Technically successful procedure in 354 patients (95.1%)
- Morphologic appearance suggestive of invasive cancer in 14 patients (3.4%)
- Cancer missed on index procedure in 2 patients (0.53%)
- Large polyps involving a diverticulum 2 (0.53%)
- At least one missed advanced adenoma in 154 patients (40.8%)
- Access to documented polyp technically difficult in 14 patients (3.8%)
- Tattoo placed into polyp in 92 patients (25.9%)
- Difficult resection in 14 patients (3.8%)
- Follow up colonoscopy performed in 242 patients (65%)
- Residual polyp tissue in 16 patients (6.6%) easily resected
- Multivariate analysis
- FH of colon cancer significant factor for missed advanced adenoma (p<0.04)

Patients	Total number
Male	231(65.3%)
Female	123(34.7%)
Age	62+/-9.1 yrs
Family history of colon cancer	151 (37%)
EMR Location	
Cecum	67(18%)
Ascending Colon	67(18%) 134(36%)
Transverse Colon	63(17%)
Descending Colon	19(5%)
Sigmoid Colon	37(10%)
Rectum	52(14%)
Pathology of Missed Adenomas	
Tubular Adenoma or Tubulovillous Adenoma	107(69.4%)
Sessile Serrated Polys	67(43.5%)

# DISCUSSION

- Advanced adenomas are frequently missed in patients referred for EMR
- FH of colon cancer is a predictor for missed advanced adenomas
- Education for referring physicians needed
- Document technical difficulty of colonoscopy
- Avoid tattoo into polyp tissue
- Performing high quality colonoscopy to increase adenoma detection

