UNIVERSITY OF MIAMI MILLER SCHOOL of MEDICINE PALM BEACH REGIONAL CAMPUS



Introduction

- Inflammatory cap polyposis (ICP) is a rare and benign condition with findings of multiple inflammatory polyps of granulation tissue with a cap of fibrinopurulent mucus.
- ICP can mimic an aggressive colon pathology. It is occasionally misdiagnosed as Inflammatory Bowel Disease (IBD) or colorectal cancer leading to unnecessary interventions.
- We present a severe case of ICP which led to more than 30 colonoscopies and polypectomies.

Case Description

- 73-year-old man with smoking history presented with chronic constipation, mucus in stool and painless hematochezia.
- Colonoscopy revealed ulcerated, friable polyps with mucus plug in the rectosigmoid area.
- Initial Pathology showed hyperplastic, tubular, and tubulovillous adenomas.
- IBD and infectious workup were negative.
- He received Miralax for constipation and Balsalazide for misdiagnosed ulcerative colitis from 2013 to 2020 but continued to have multiple recurrent polyps.
- Given perceived precancerous polyp burden with gross aggressive appearance, hemicolectomy was initially proposed.
- Review of pathology, however, confirmed that the polyps had similar features of ICP.
- He has undergone multiple colonoscopies each requiring several cold snare polypectomies.
- His symptoms and polyp burden have significantly improved and in the last colonoscopy, he had less than five benign polyps.



Polyp that Wears a Cap: A Case of Inflammatory Cap Polyposis Mimicking Neoplasm



Figure 1: Ulcerated, friable pedunculated polyps with mucus caps in the rectosigmoid region Figure 2: Ulcerated, friable pedunculated polyps with mucus caps in the rectum.

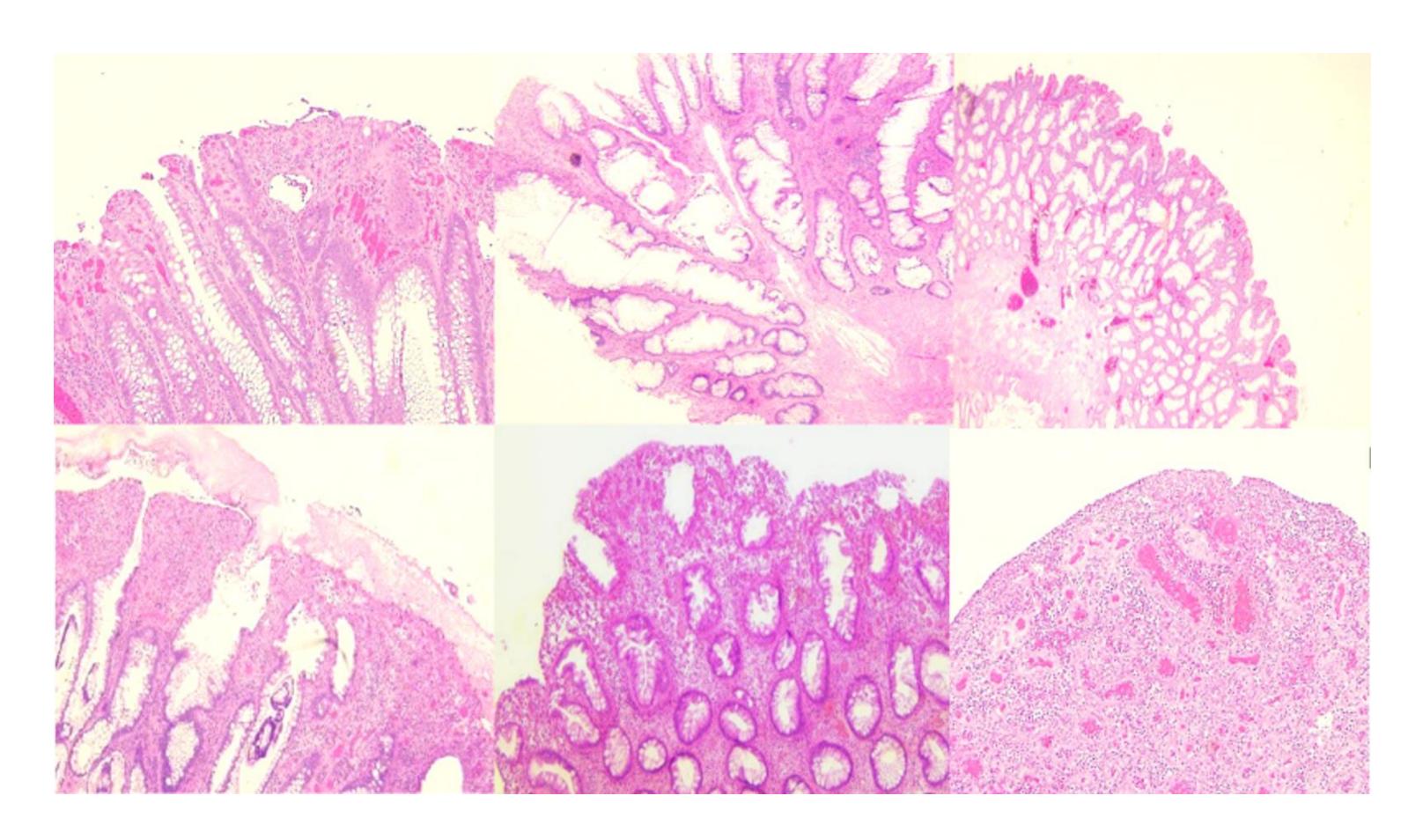
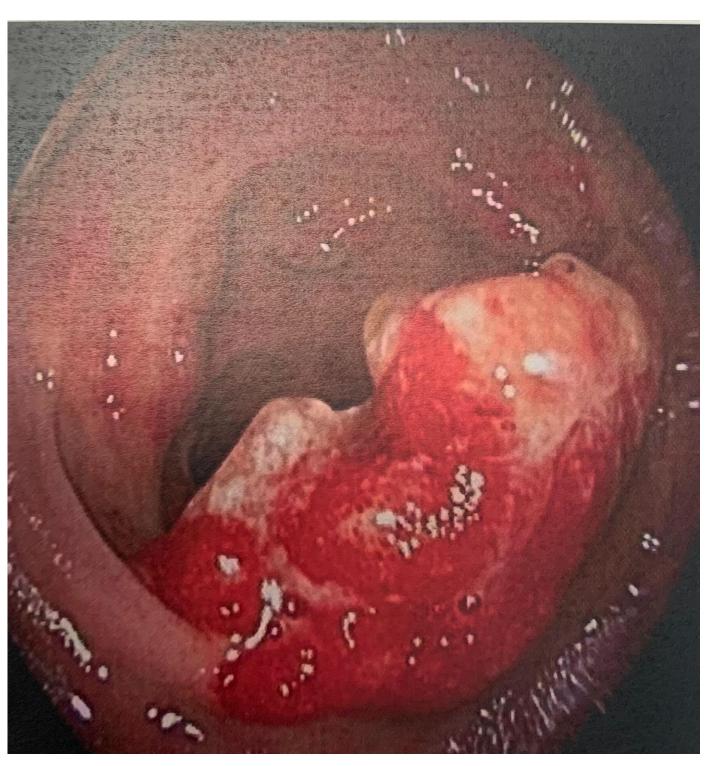


Figure 3: Bottom right showing granulation tissue; Bottom left- mucus cap on top of the polyp.

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- poorly understood.
- infections with H. pylori or E. coli.

- and colectomy.
- colectomy.
- or interventions.
- CAP.

• Brunner M, Agaimy A, Atreya R, Grützmann R, Matzel KE. Cap polyposis in children: case report and literature review. Int J Colorectal Dis. 2019 Feb;34(2):363-368. doi: 10.1007/s00384-018-3192-6. Epub 2018 Nov 13. PMID: 30426196. • Ng KH, Mathur P, Kumarasinghe MP, Eu KW, Seow-Choen F. Cap polyposis: further experience and review. Dis Colon Rectum. 2004 Jul;47(7):1208-15. doi:

- 10.1007/s10350-004-0561-8. Epub 2004 Jun 3. PMID: 15164251.
- 10.1053/j.gastro.2004.03.007. PMID: 15188181
- American Journal of Gastroenterology: October 2010 Volume 105 Issue p S324

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Discussion

Since being introduced in 1985, ICP's etiology and therapy are

Proposed etiology: abnormal colonic motility causing mucosal prolapse, luminal trauma, dysbiosis of gut microbiota, and chronic

Presenting features: abdominal pain, chronic constipation,

tenesmus, mucoid diarrhea, hypoproteinemia and hematochezia. **Endoscopic features**: sessile, semi-pedunculated, or plaque with a white superficial ulcerated surface as large as a few centimeters. **Histologically:** overlying eroded fibrinopurulent "cap" with elongated and dilated crypts full of mucus and inflammatory cells. **Proposed treatments:** treatment for constipation, dietary modifications, antibiotics, steroid course, **infliximab**, polypectomy,

• However, recurrence is common including those who underwent

• Gastroenterologists and pathologists should be familiar with this rare pathology to prevent misdiagnosis and unnecessary treatment

• It is crucial to diagnose pre-cancerous or neoplastic polys and it is equally important to not misdiagnose benign rare etiologies like

More research needs to be done to evaluate preventive and curative therapy for this benign pathology.

References

• Bookman ID, Redston MS, Greenberg GR. Successful treatment of cap polyposis with infliximab. Gastroenterology. 2004 Jun;126(7):1868-71. doi:

• Patel, Rikin MD; Attar, Bashar MD; Chawla, Saurabh MD; Jha, Ritesh MD. Cap Polyposis: A Rare and Poorly Understood Form of Colonic Polyps: 895.

