



VÅRMÖTE I PATOLOGI

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19–21 MAY

NORDIC PATHOLOGY MEETING

Fun with Colorectal Polyps and a few Non-Hereditary Polyposes

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Disclosures

- Consultation for Olympus
- Consultant for Johnson and Johnson
- Consultant for Merck
- Received honorarium and travel expense money from ARUP Laboratories

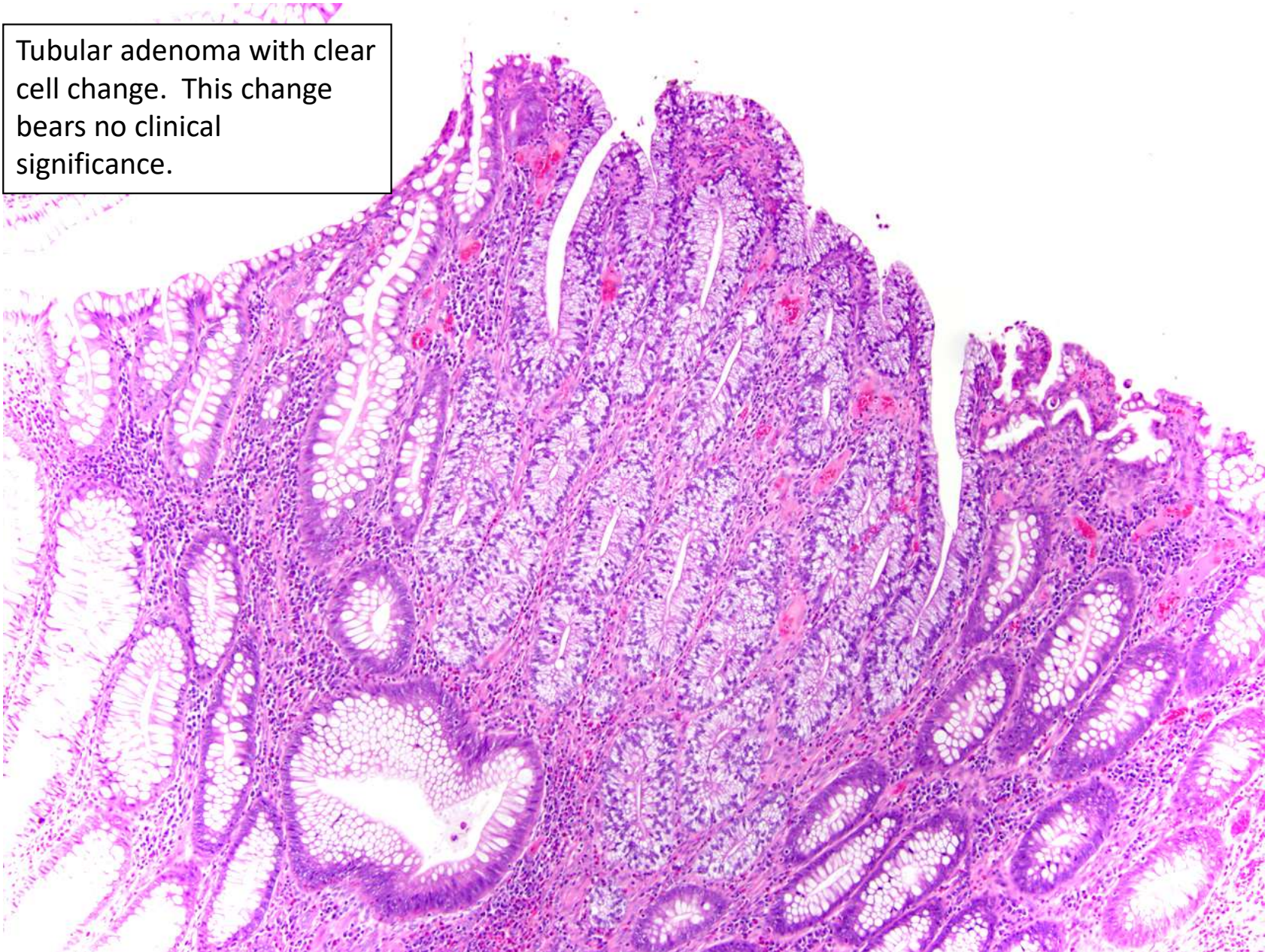
Objectives

- To discuss some unusual aspects of colorectal adenomas.
- To return to basics and discuss the difference between traditional serrated and sessile serrated adenomas.
- To discuss several non-hereditary polyposes.

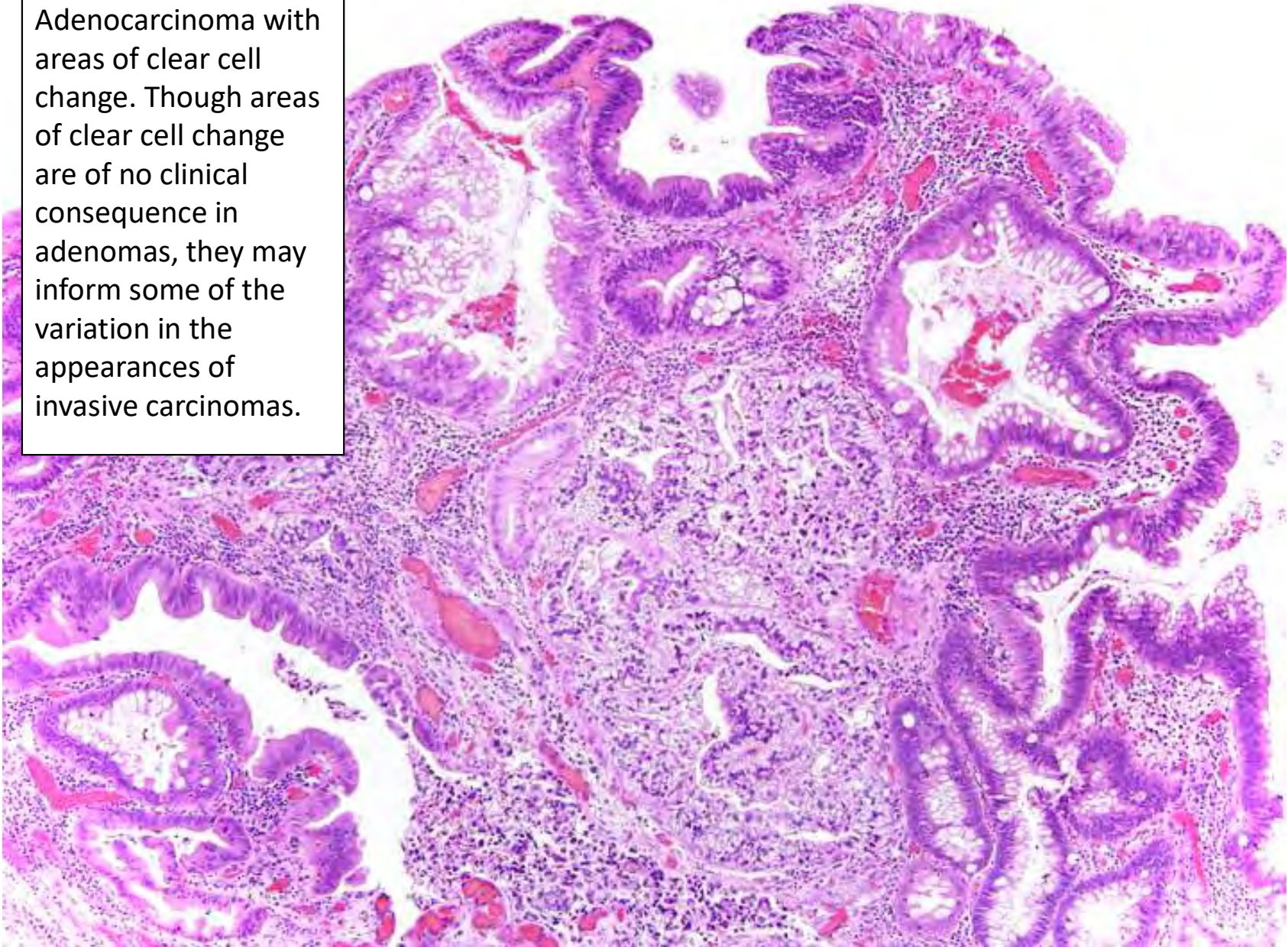
Peculiar Changes in Adenomas

- Clear cell change
- Squamous morules

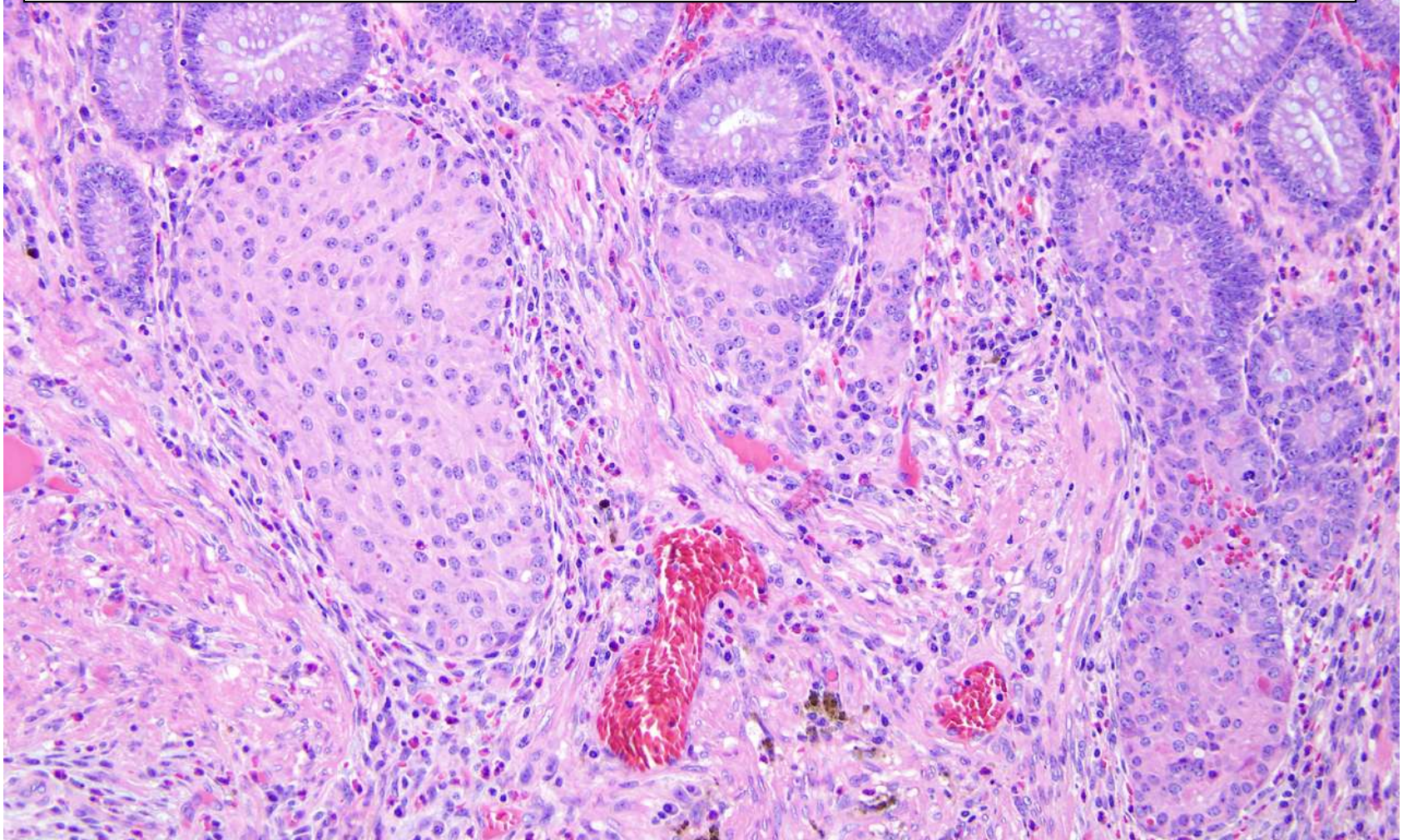
Tubular adenoma with clear cell change. This change bears no clinical significance.



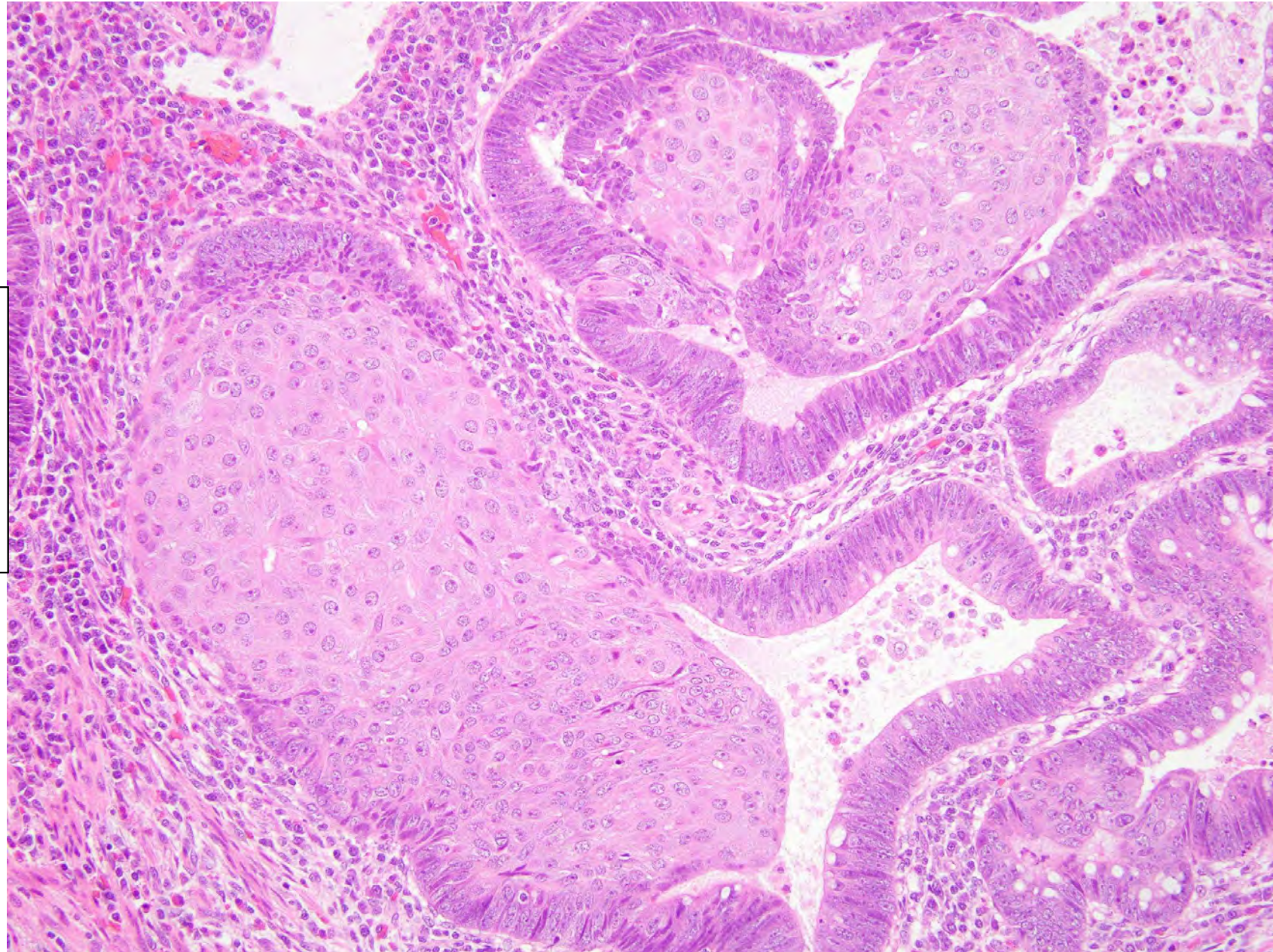
Adenocarcinoma with areas of clear cell change. Though areas of clear cell change are of no clinical consequence in adenomas, they may inform some of the variation in the appearances of invasive carcinomas.

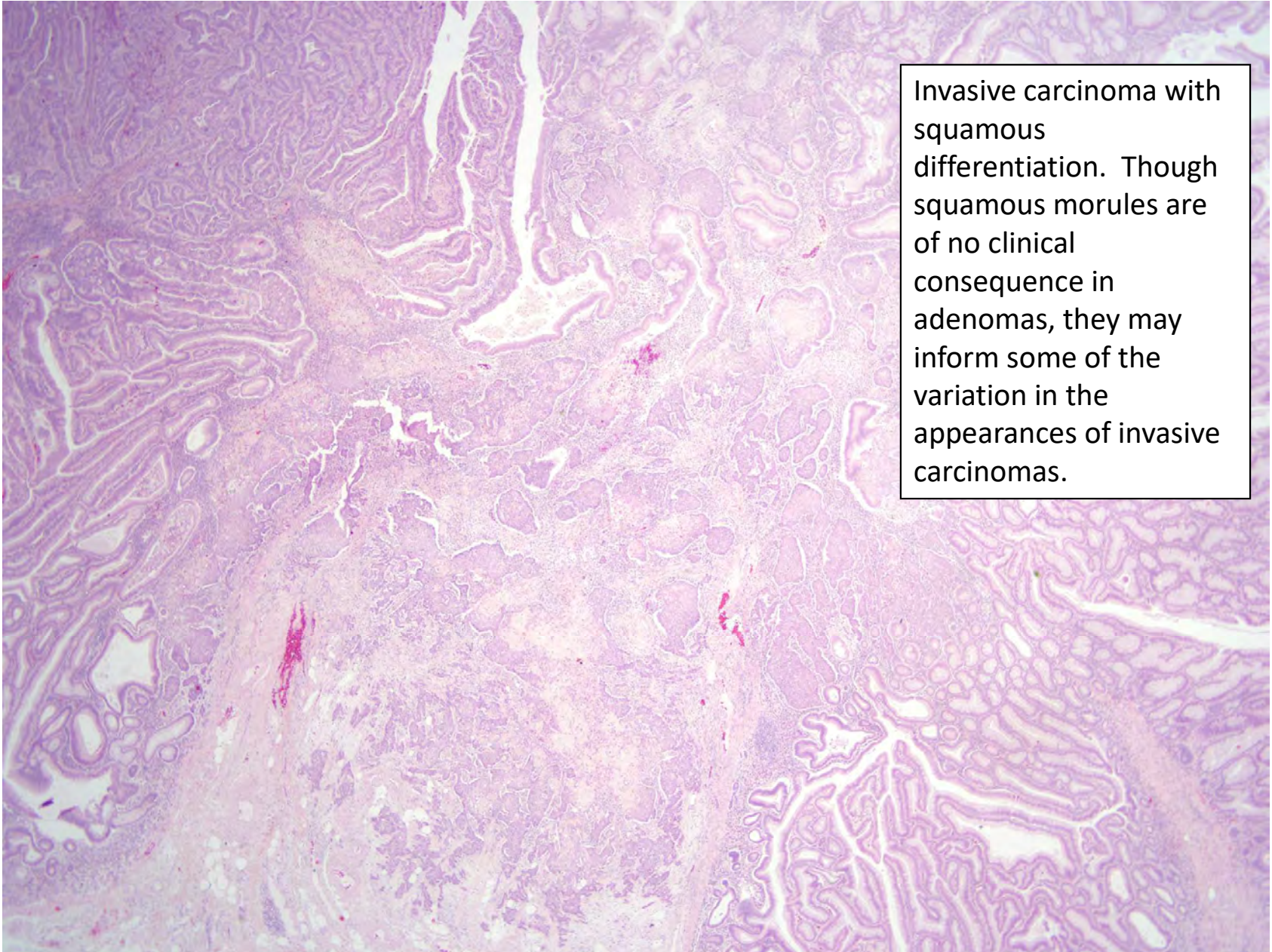


Tubular adenoma with squamous morules ("microcarcinoids"). Morule formation in a tubular adenoma with prolapse change (pseudoinvasion). Some of the glands show associated morules and there is hemosiderin in the center of the field.

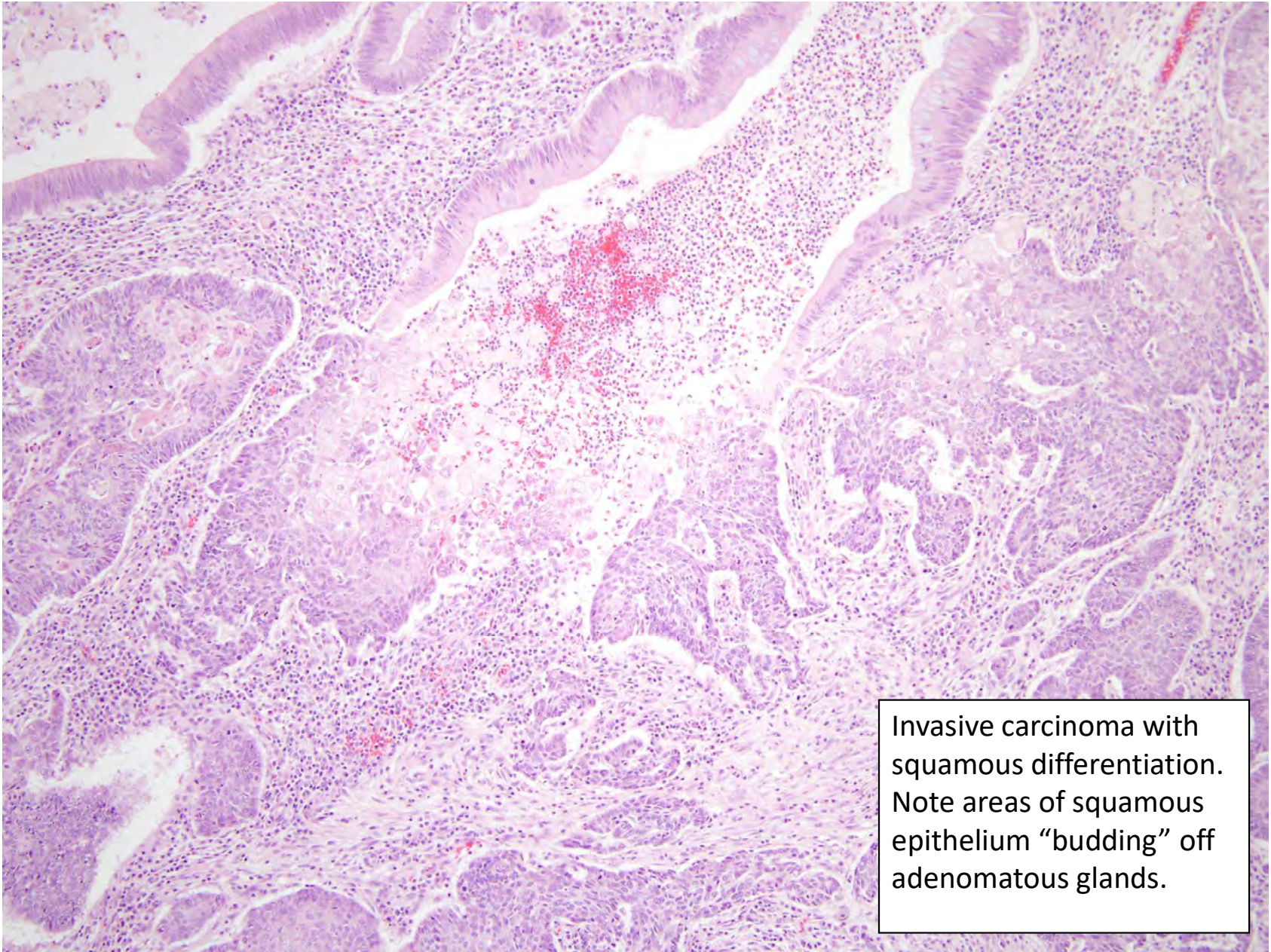


Tubular adenoma with squamous morules. Some observers regard these as “microcarcinoids”- They express both CK5/6 and endocrine markers in some cases

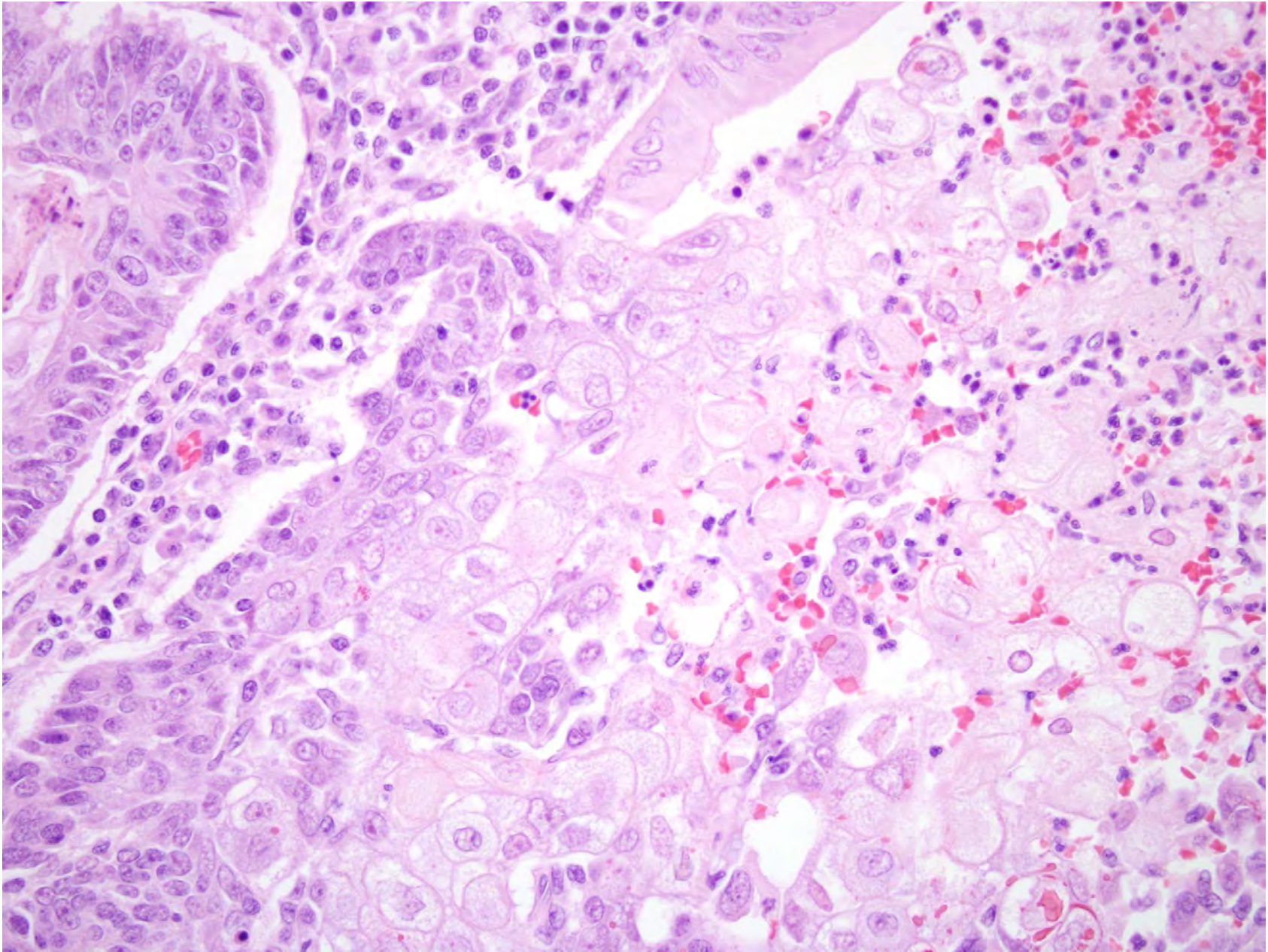




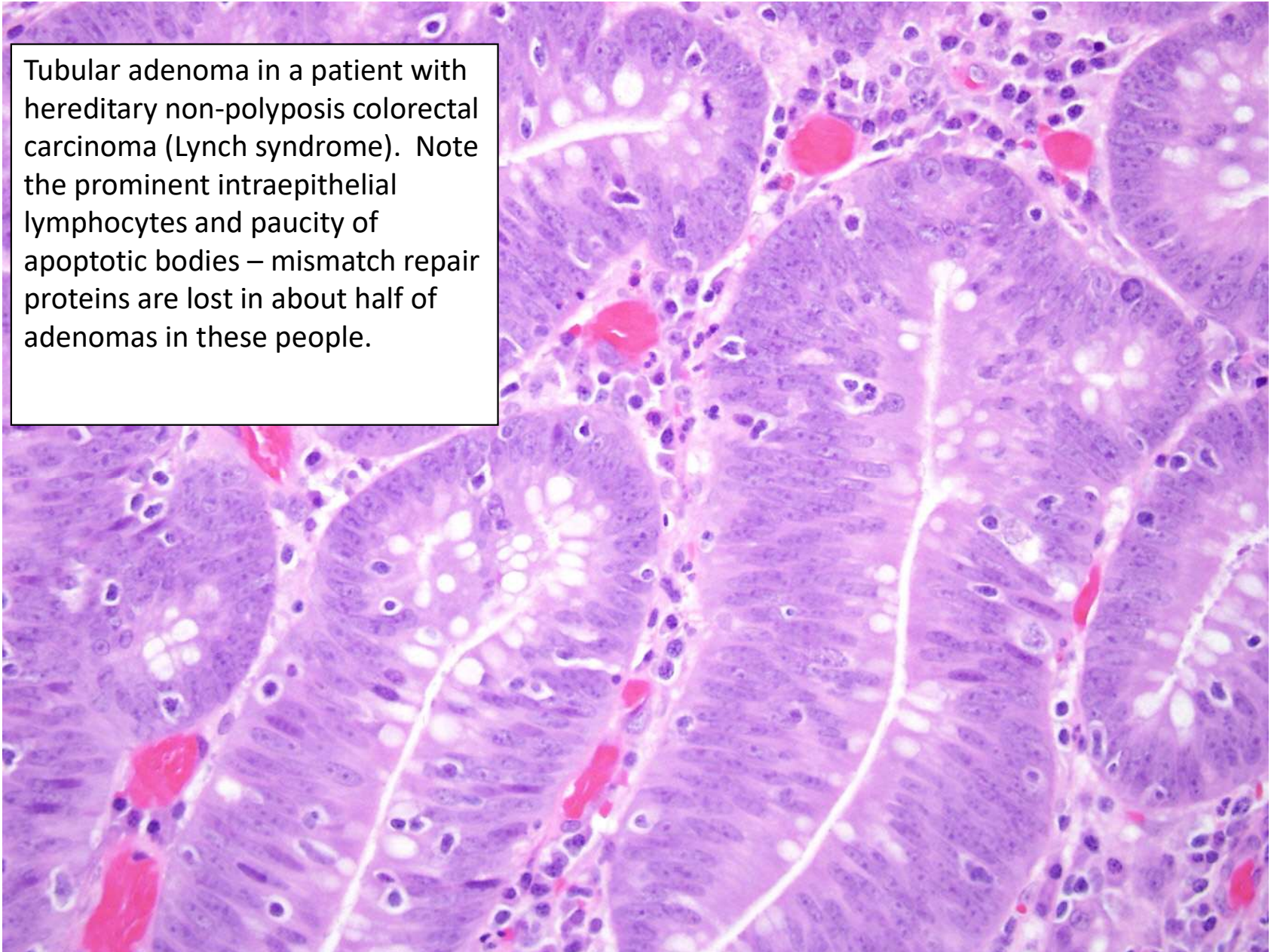
Invasive carcinoma with squamous differentiation. Though squamous morules are of no clinical consequence in adenomas, they may inform some of the variation in the appearances of invasive carcinomas.



Invasive carcinoma with squamous differentiation. Note areas of squamous epithelium "budding" off adenomatous glands.

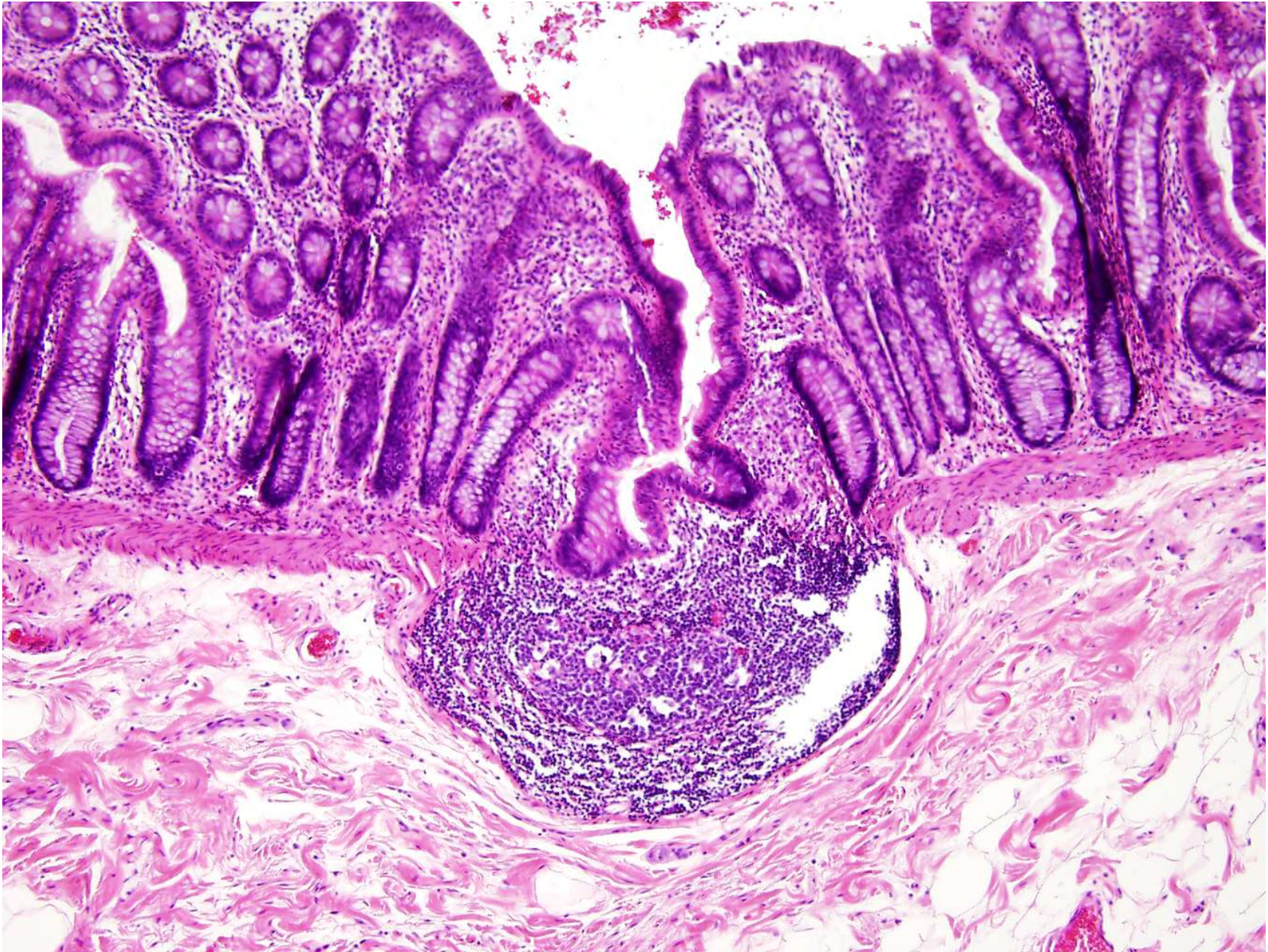


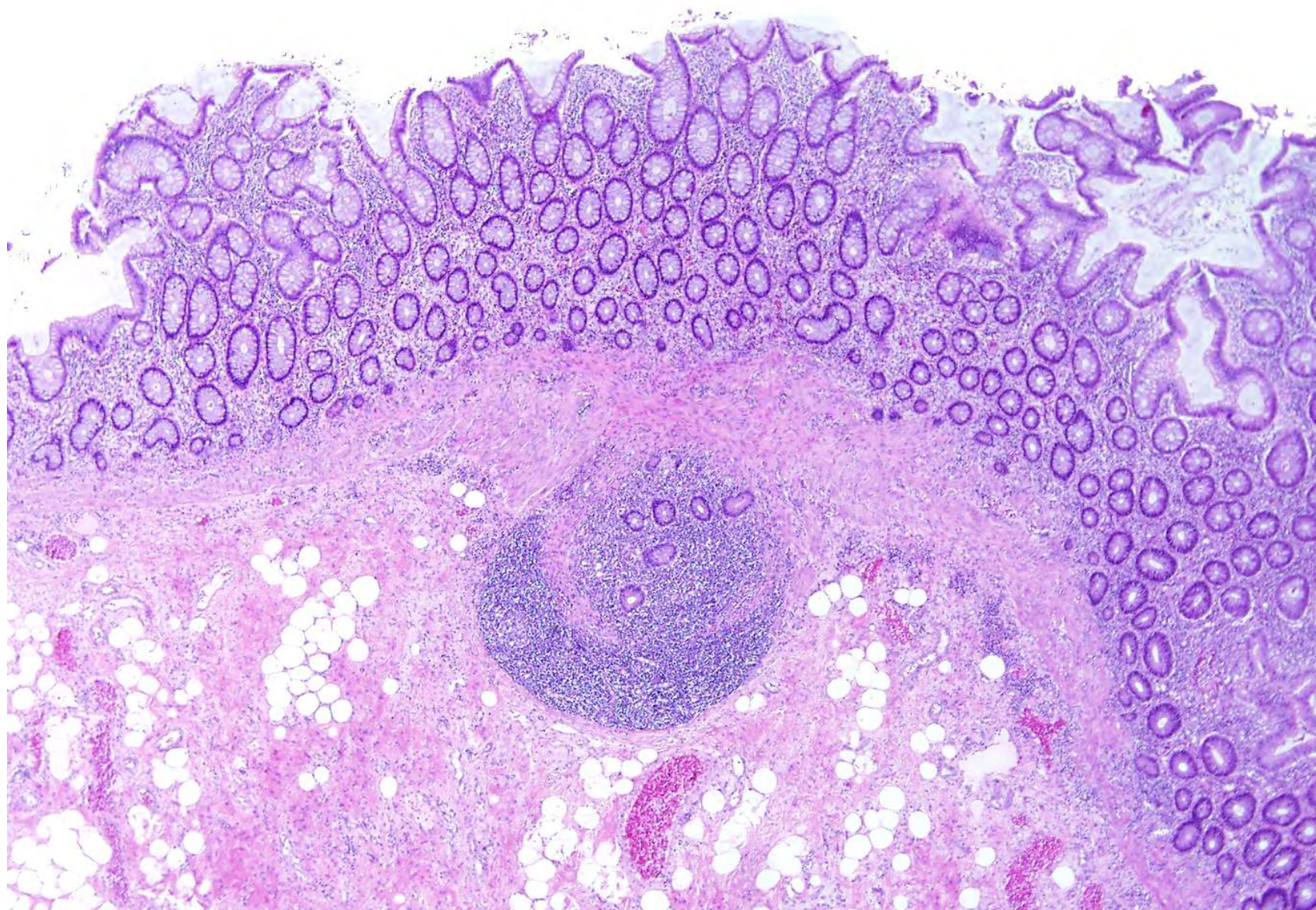
Tubular adenoma in a patient with hereditary non-polyposis colorectal carcinoma (Lynch syndrome). Note the prominent intraepithelial lymphocytes and paucity of apoptotic bodies – mismatch repair proteins are lost in about half of adenomas in these people.

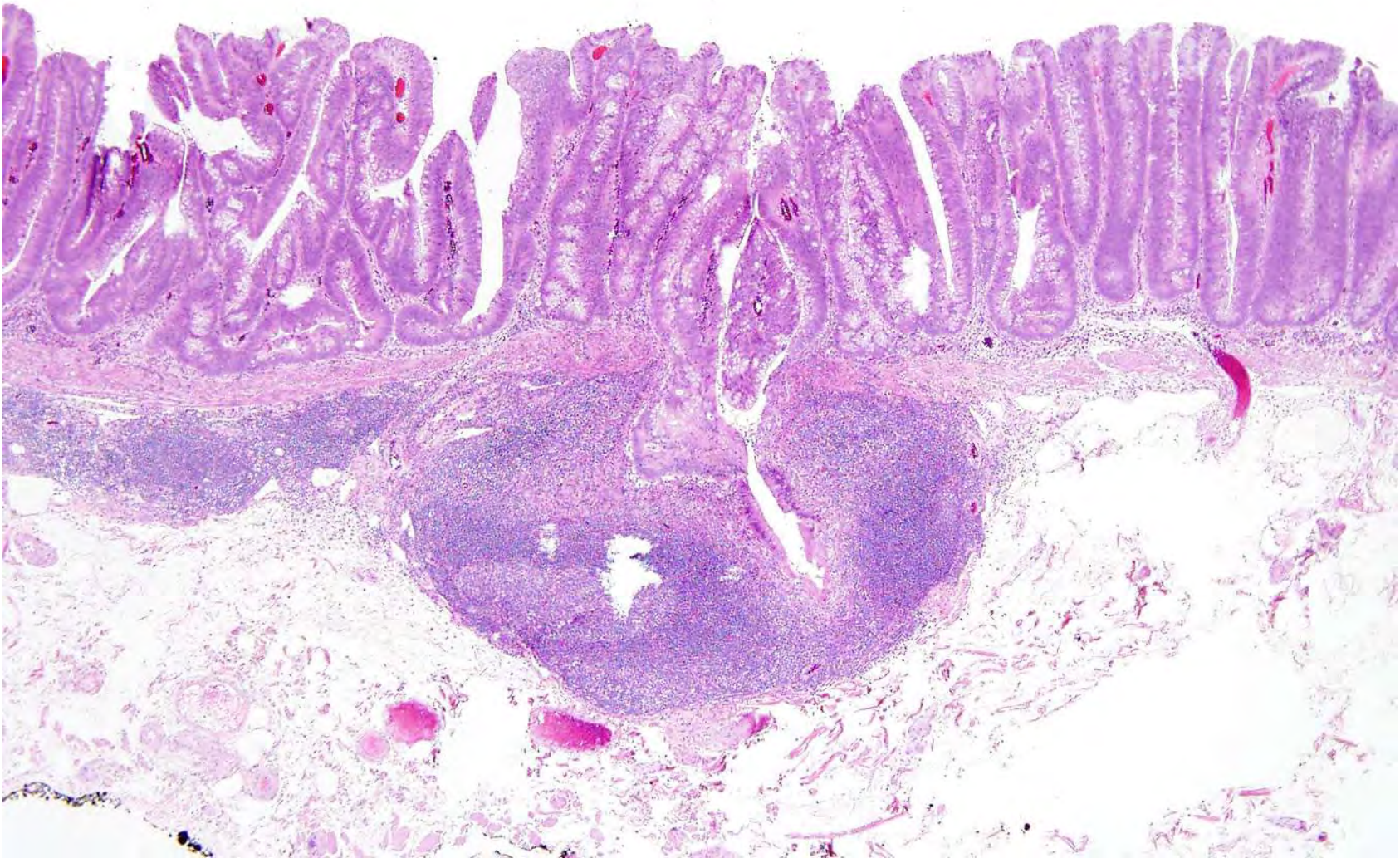


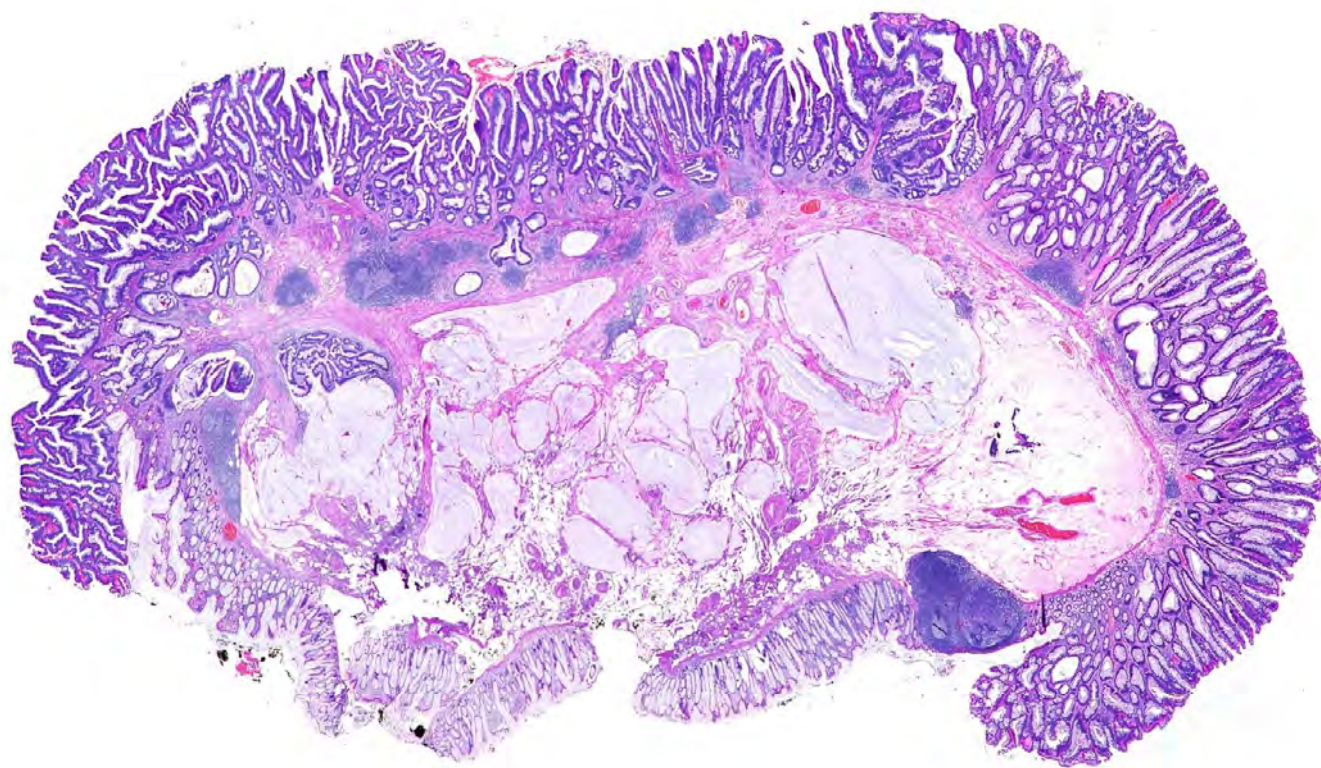
“Pseudoinvasion”

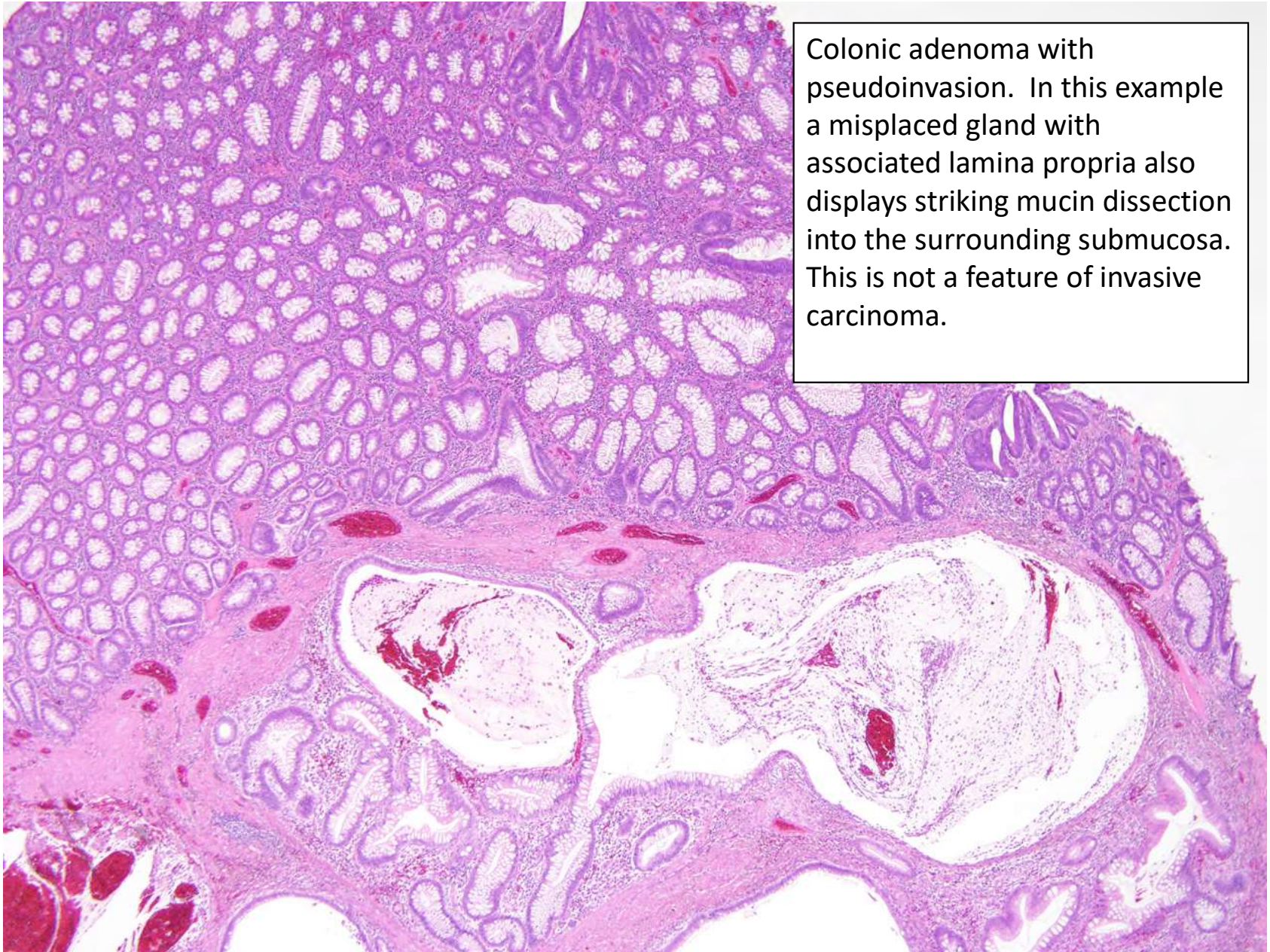
- Usually in sigmoid colon and easy to interpret
- Accompanying hemosiderin
- A few issues with confusion with cancer





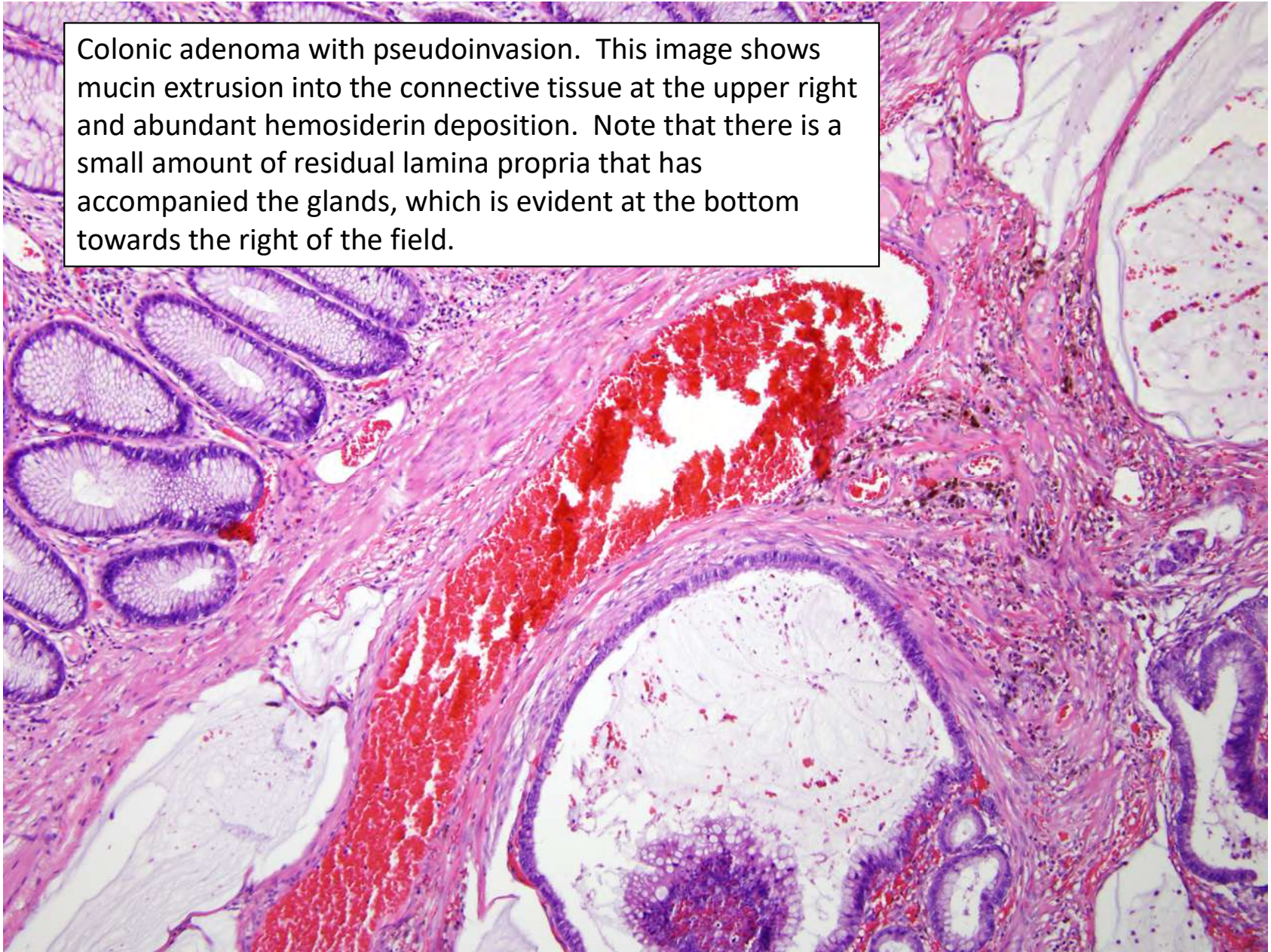


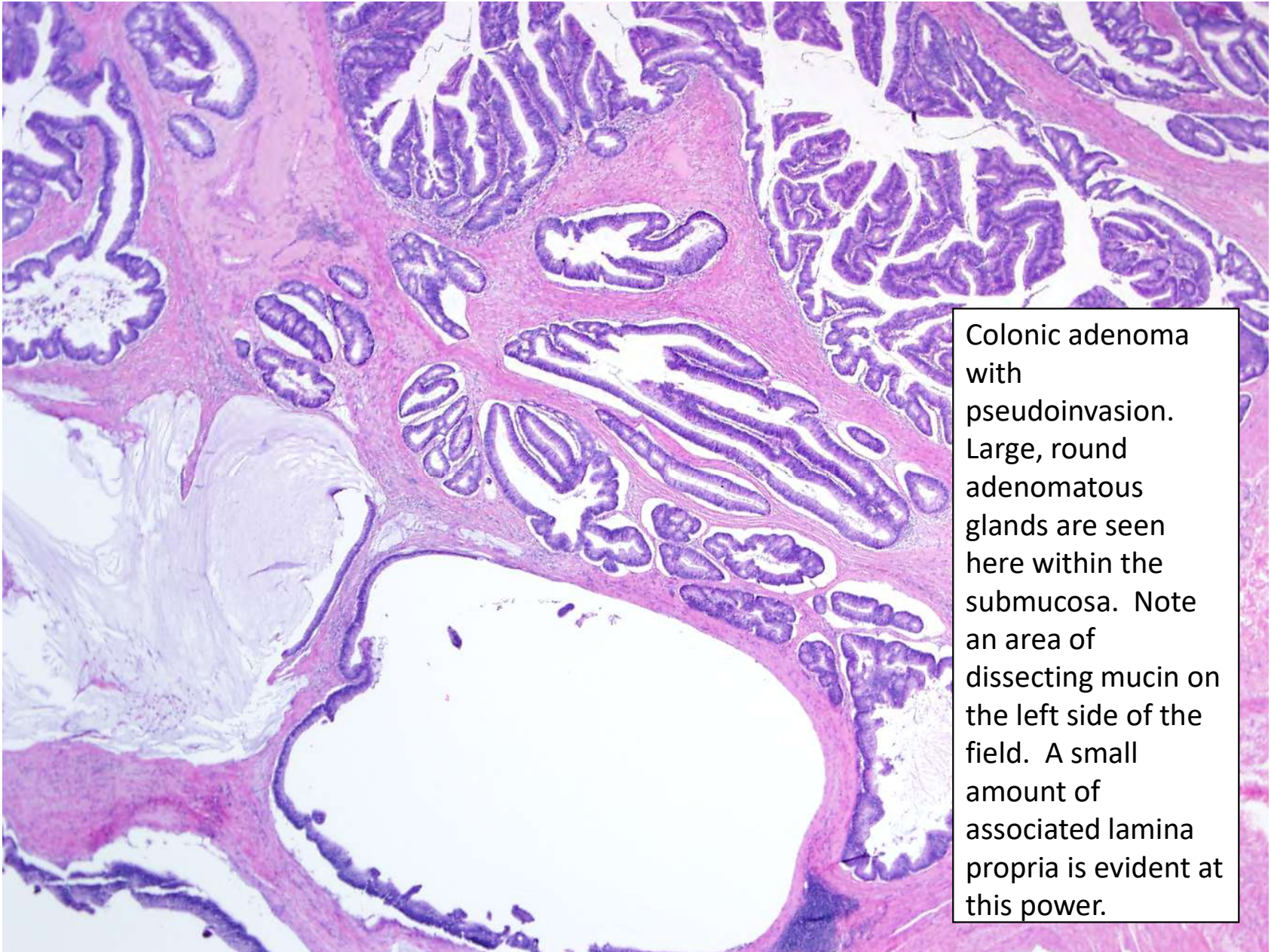




Colonic adenoma with pseudoinvasion. In this example a misplaced gland with associated lamina propria also displays striking mucin dissection into the surrounding submucosa. This is not a feature of invasive carcinoma.

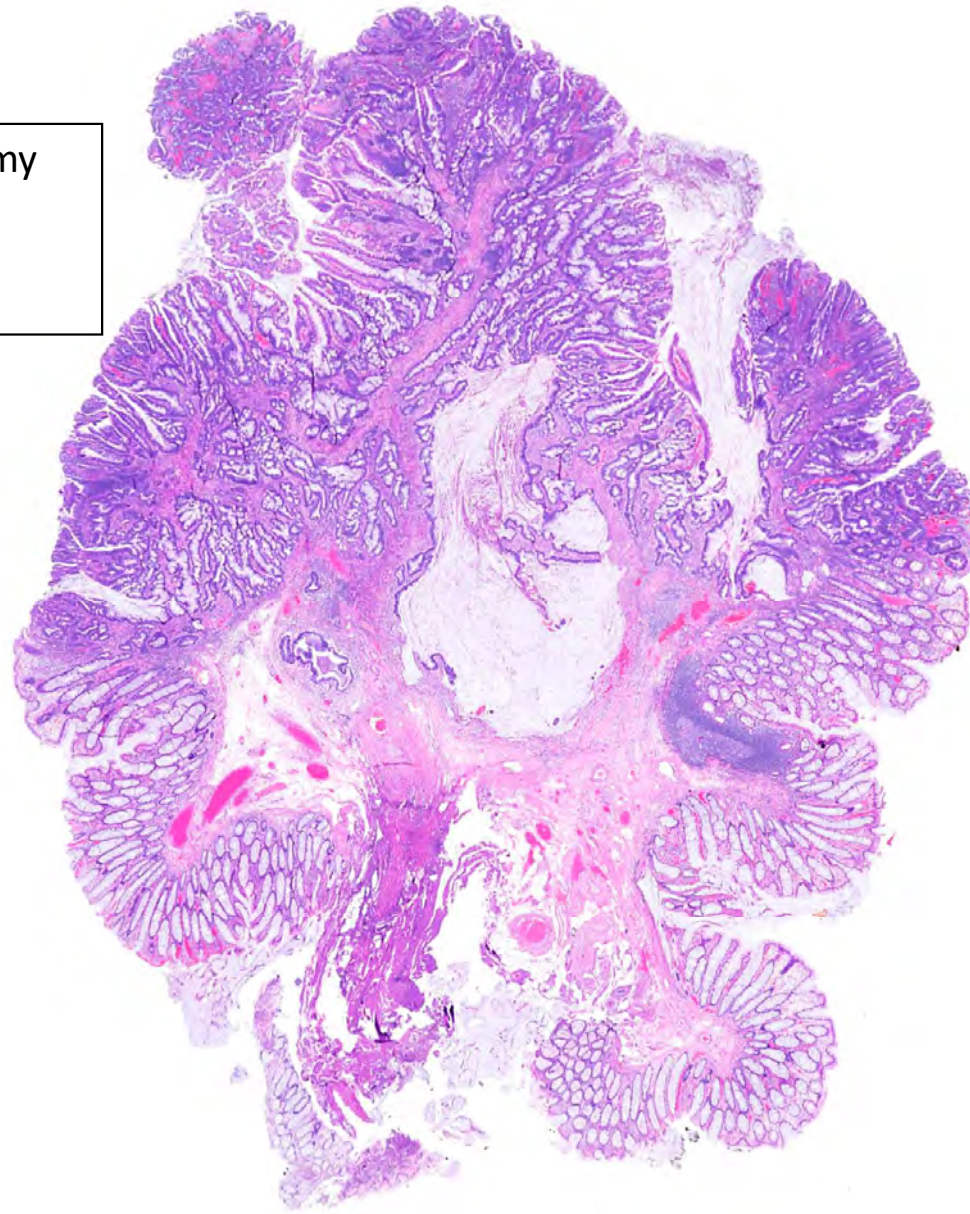
Colonic adenoma with pseudoinvasion. This image shows mucin extrusion into the connective tissue at the upper right and abundant hemosiderin deposition. Note that there is a small amount of residual lamina propria that has accompanied the glands, which is evident at the bottom towards the right of the field.

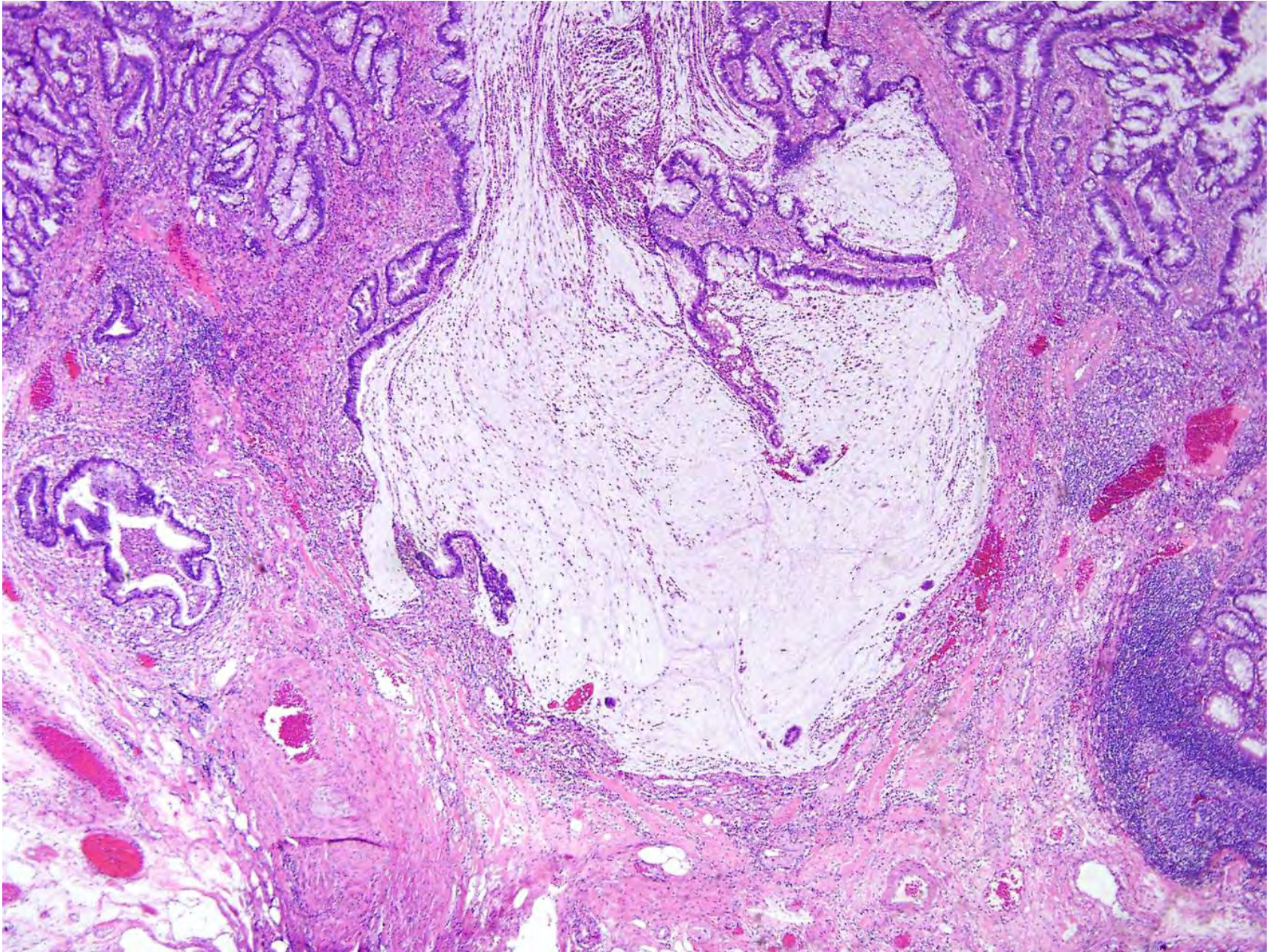


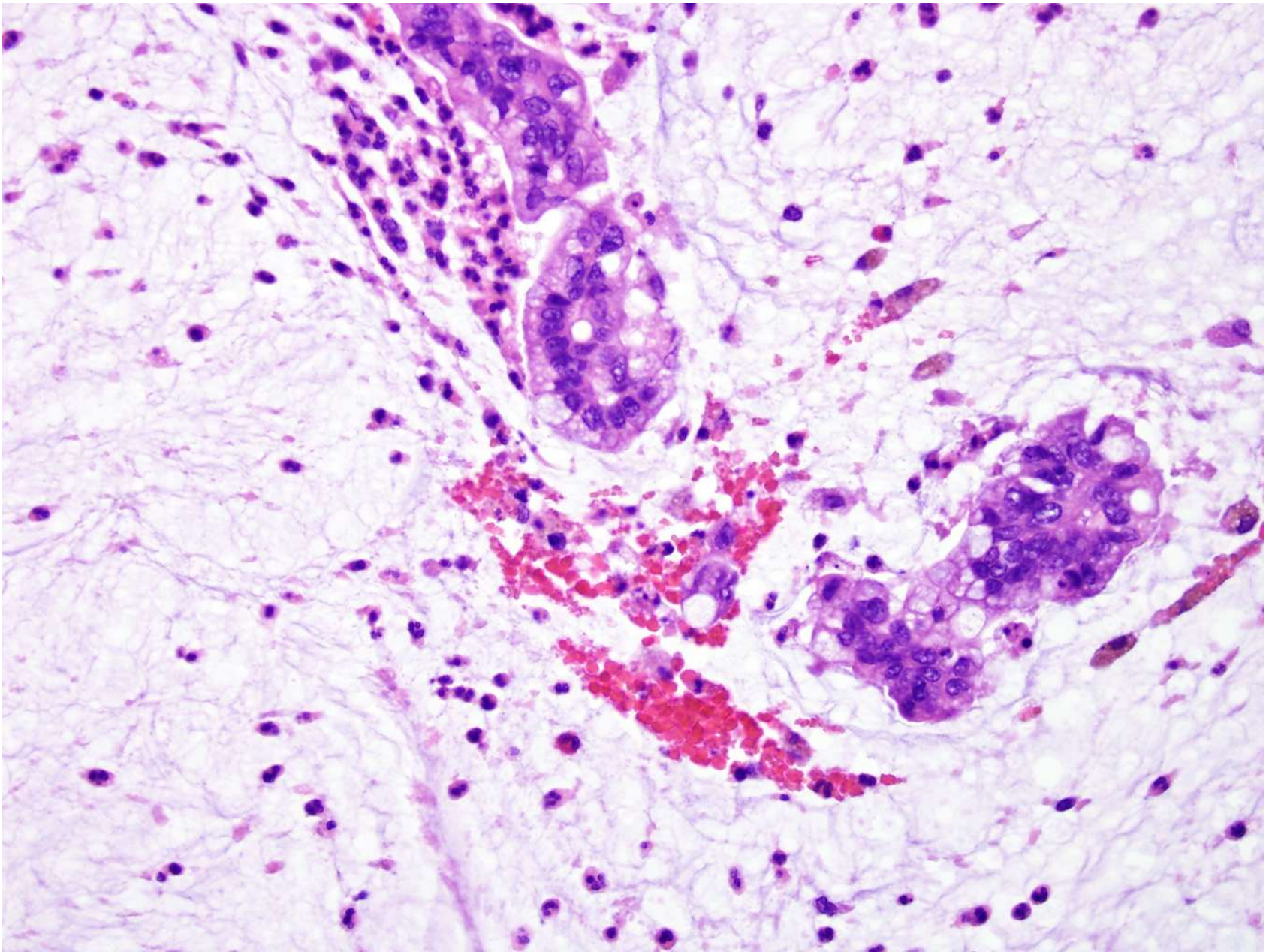


Colonic adenoma with pseudoinvasion. Large, round adenomatous glands are seen here within the submucosa. Note an area of dissecting mucin on the left side of the field. A small amount of associated lamina propria is evident at this power.

Pseudoinvasion (my
opinion) with
dramatic mucin
extrusion







Just When We thought it was Safe to Come out of the Water

- More recently recognized sneaky carcinomas

Adenoma-like adenocarcinoma

Pushing growth pattern

Spindled lamina propria

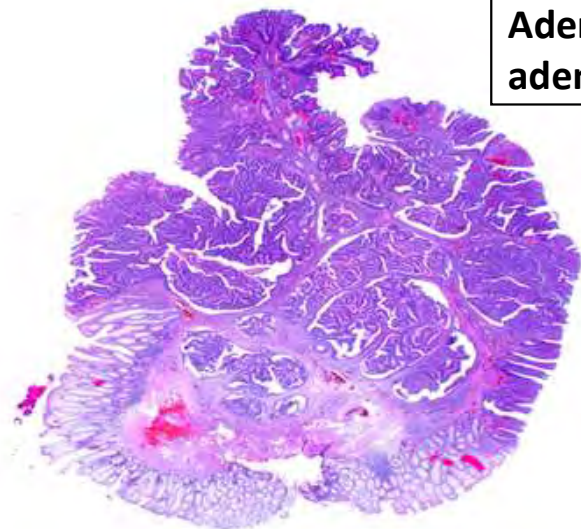
Lymphoglandular Complex-like Colorectal Carcinoma

Similar to mucosal prolapse but haphazard gland distribution, angulation, fusion, and solid nests

Gonzalez RS, Cates JM, Washington MK, Beauchamp RD, Coffey RJ, Shi C. Adenoma-like adenocarcinoma: a subtype of colorectal carcinoma with good prognosis, deceptive appearance on biopsy and frequent KRAS mutation. *Histopathology*. 2016;68(2):183-90.

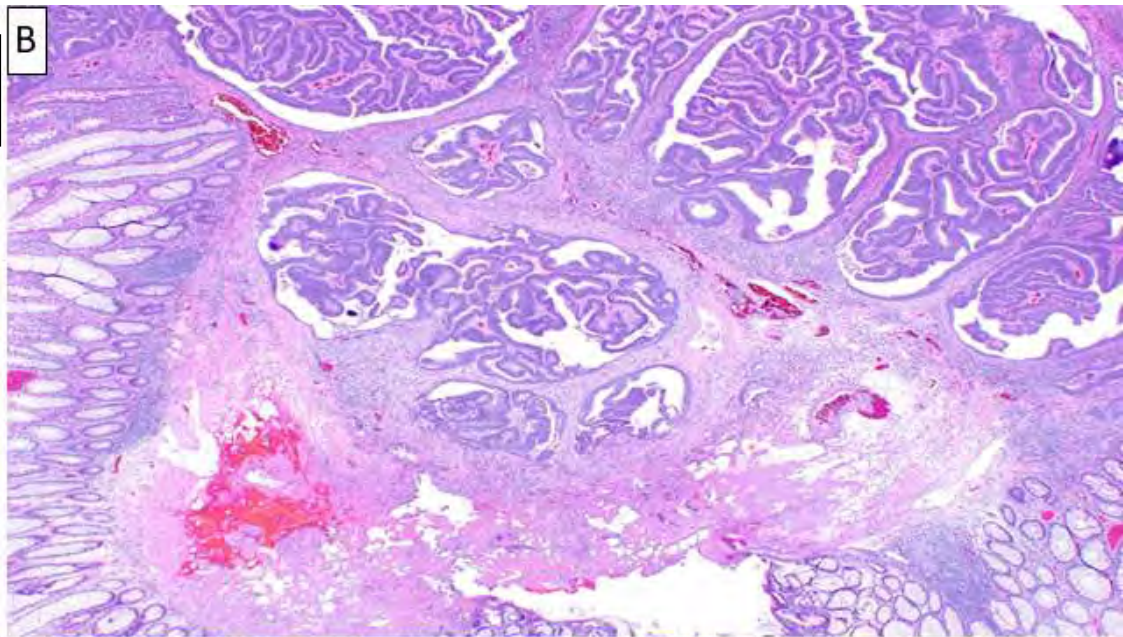
Yilmaz O, Westerhoff M, Panarelli N, Hart J, Groisman G, Ruz-Caracuel I, et al. Lymphoglandular Complex-Like Colorectal Carcinoma-A Series of 20 Colorectal Cases, Including Newly Reported Features of Malignant Behavior. *Am J Surg Pathol*. 2024;48(1):70-9.

A

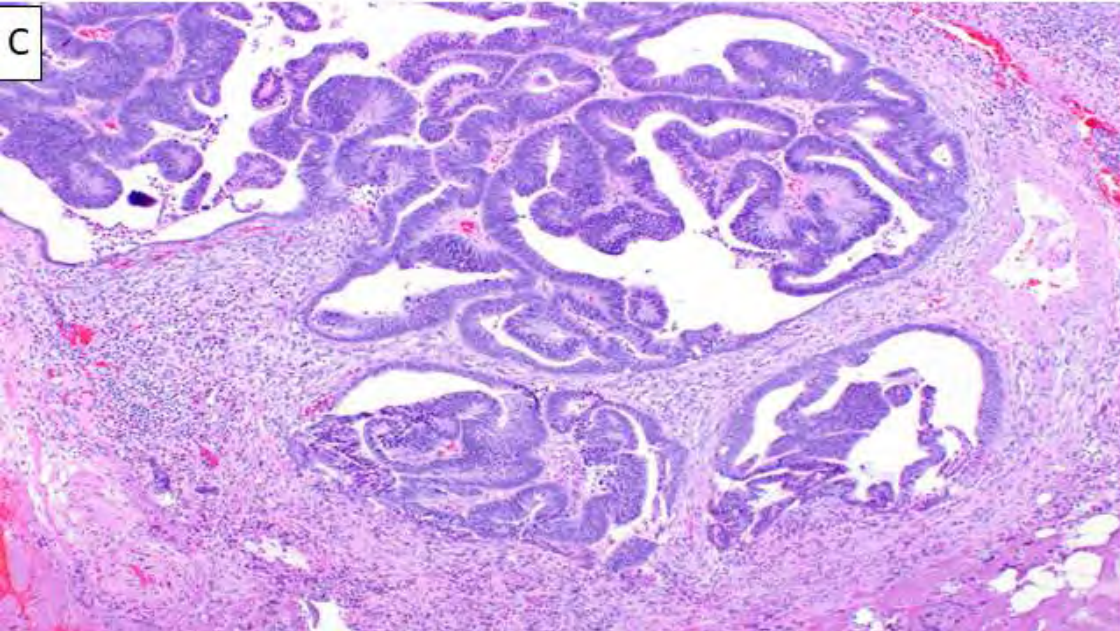


Adenoma-like
adenocarcinoma

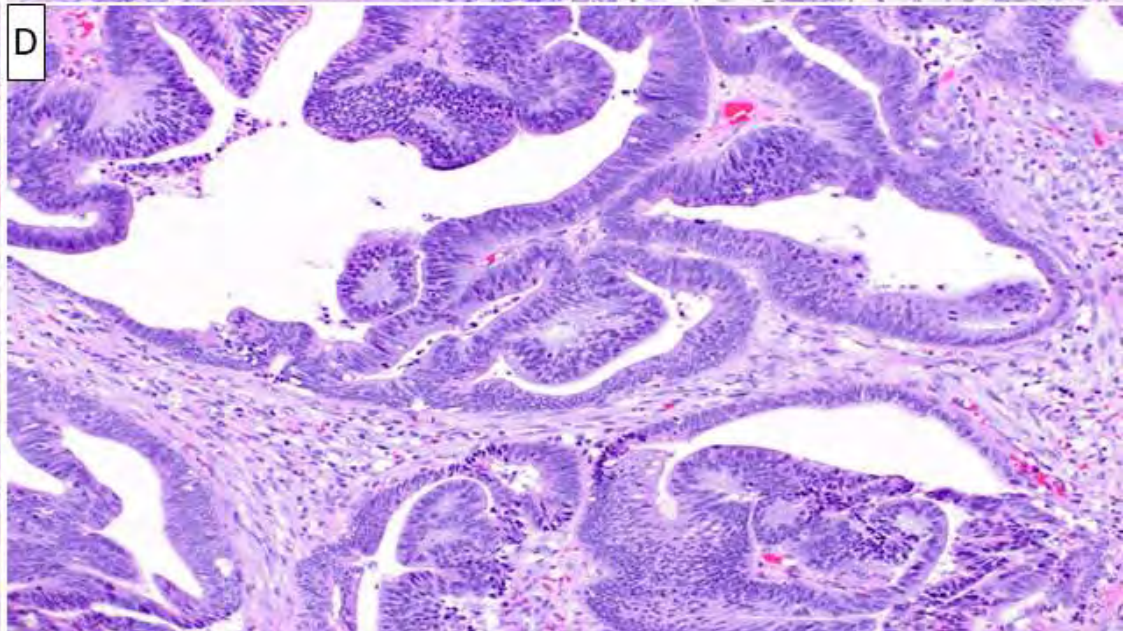
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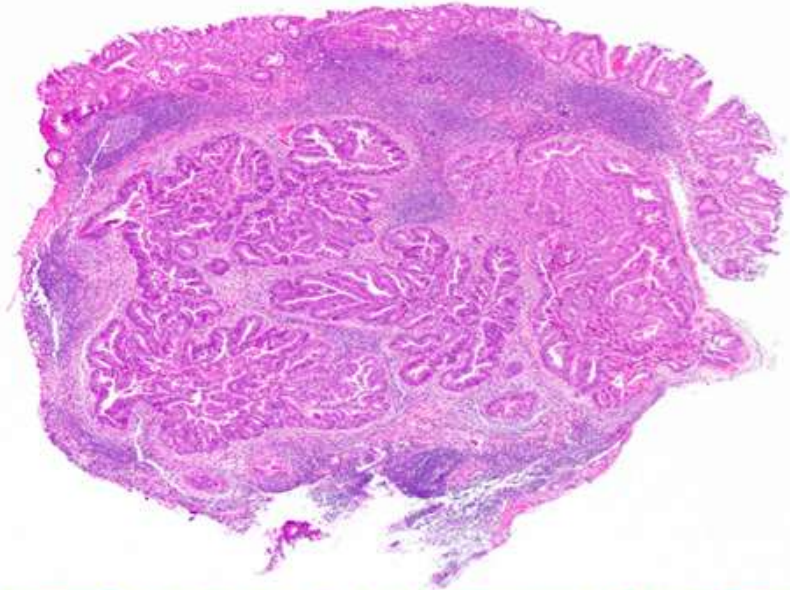
C



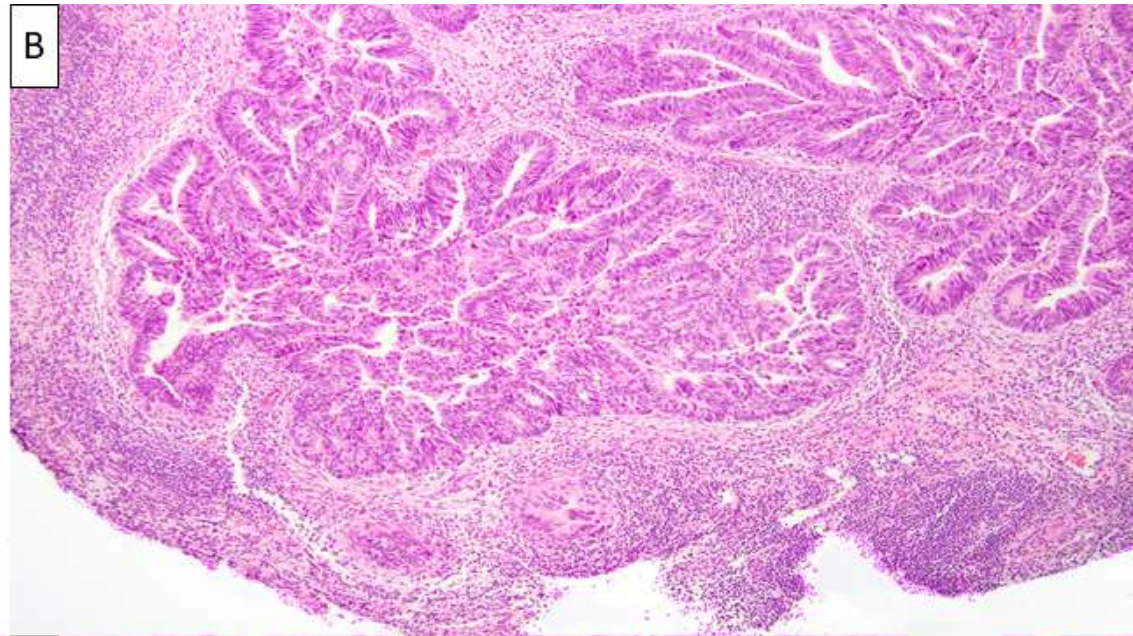
D



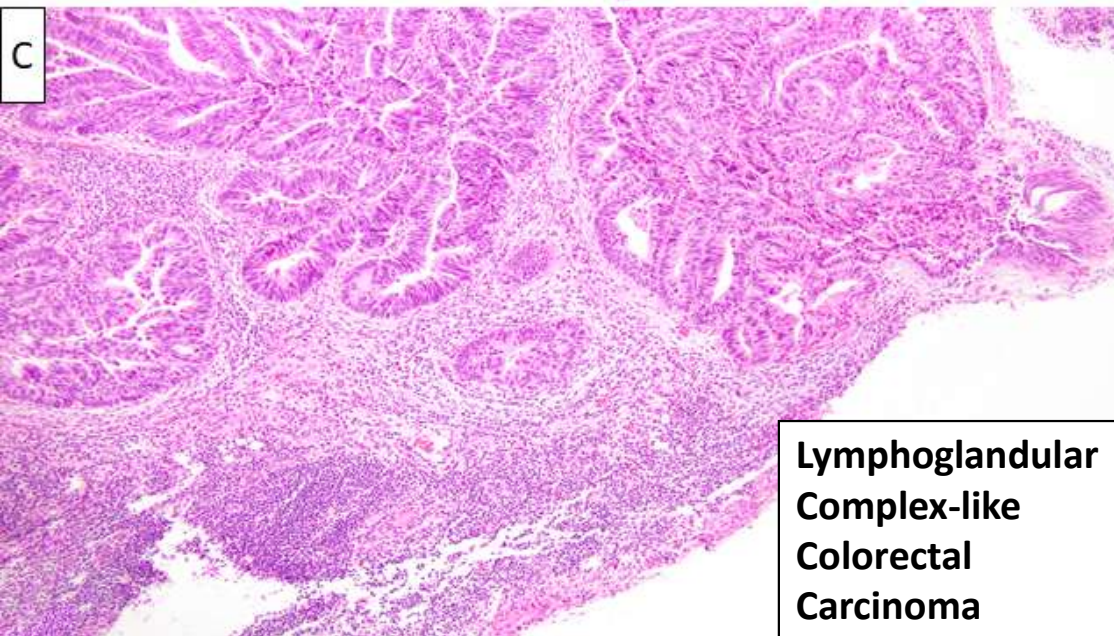
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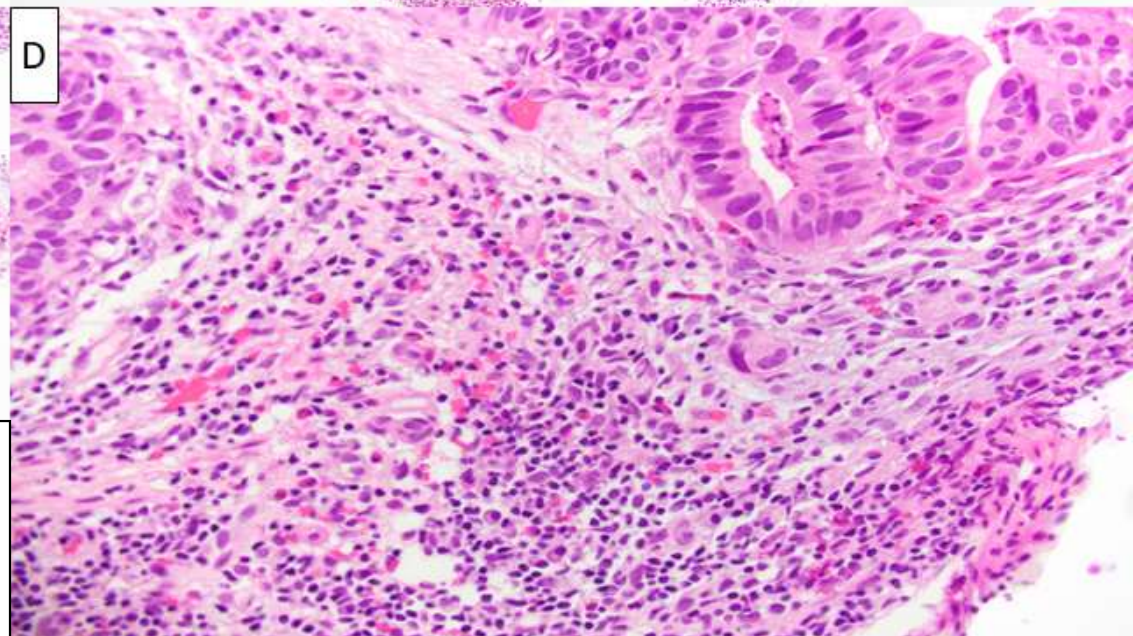
B



C



D



**Lymphoglandular
Complex-like
Colorectal
Carcinoma**

Serrated Polyps are the GI Story of the Turn of the Millennium

- Will just use the term adenoma for this discussion – do what you like at your place when reporting (I just give all three terms so everyone can understand and also no one explains to me that now we are supposed to say “lesion”).
- The term was coined by Torlakovic and Snover in 1996 – they called it “adenoma” because it is a precursor.
- No one really believed them until 2002-2003

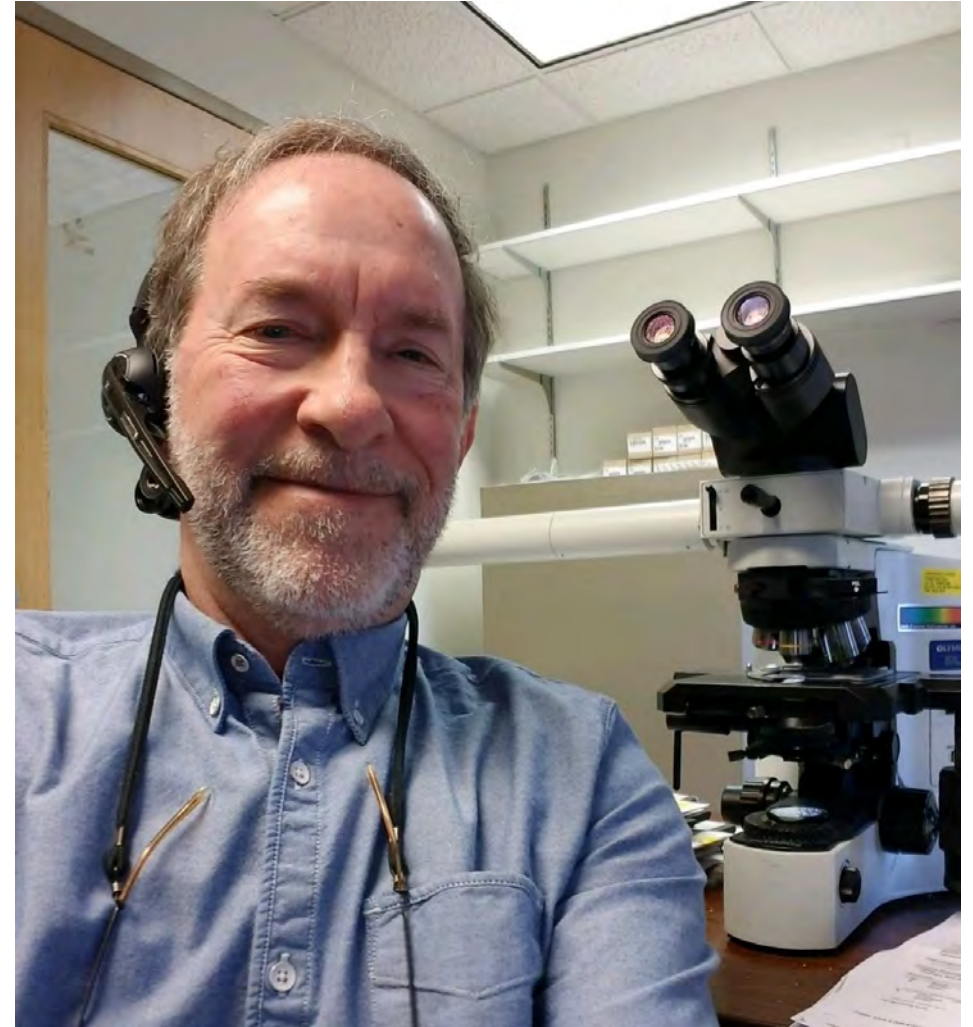
- Torlakovic E, Snover DC. Serrated adenomatous polyposis in humans. *Gastroenterology*. 1996;110(3):748-55.

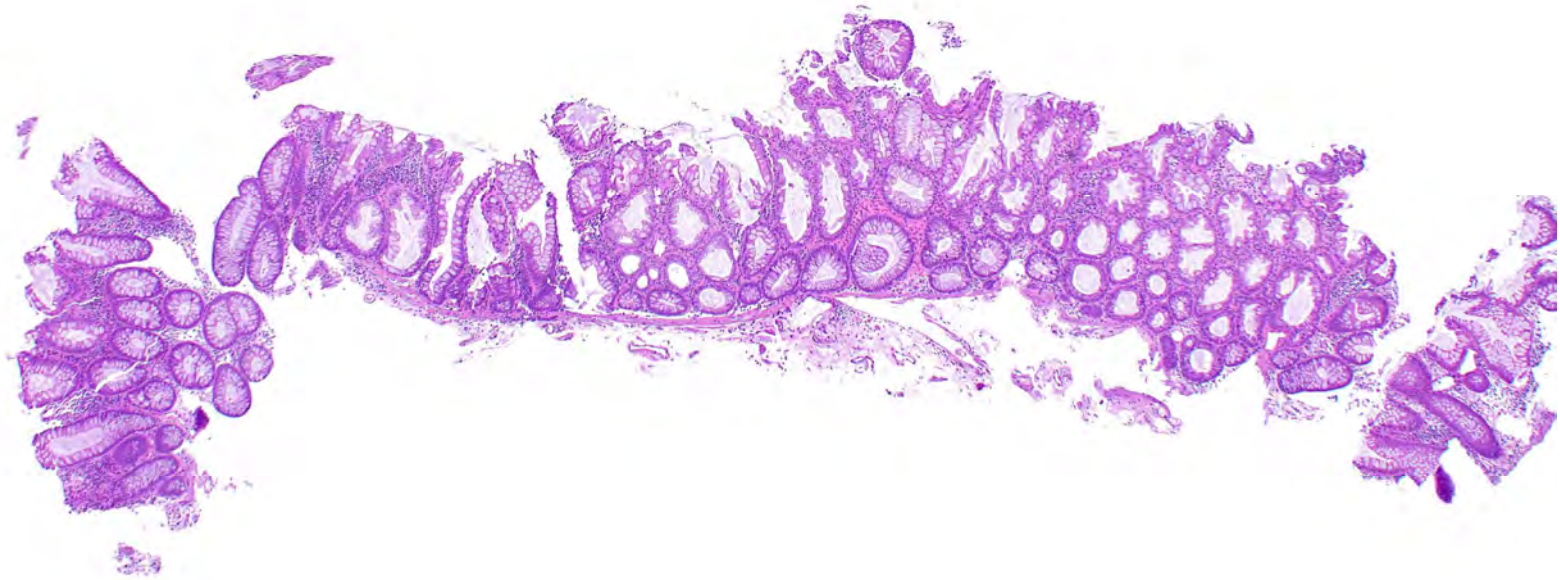
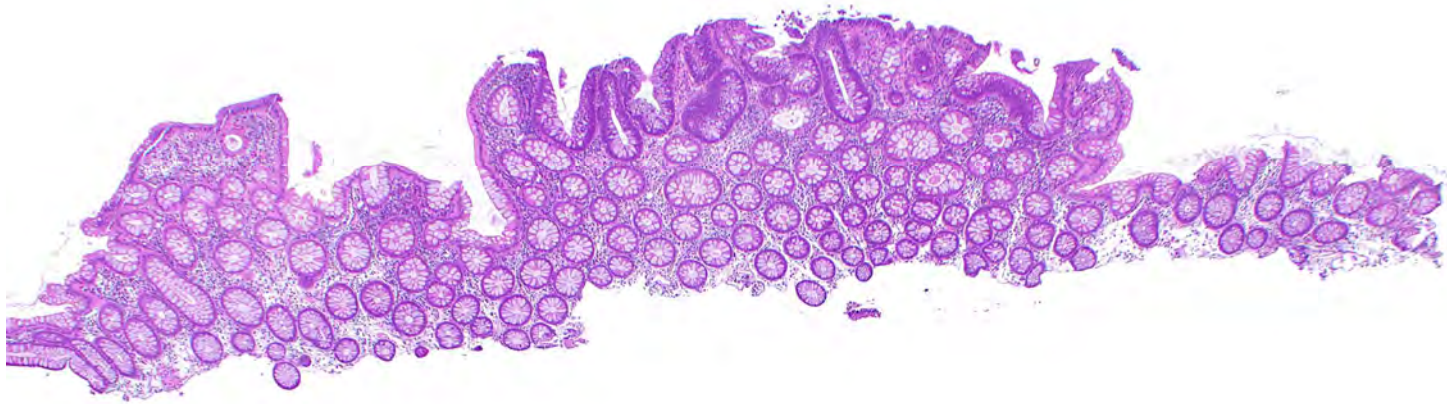
- Torlakovic E, Skovlund E, Snover DC, Torlakovic G, Nesland JM. Morphologic reappraisal of serrated colorectal polyps. *Am J Surg Pathol*. 2003;27(1):65-81.

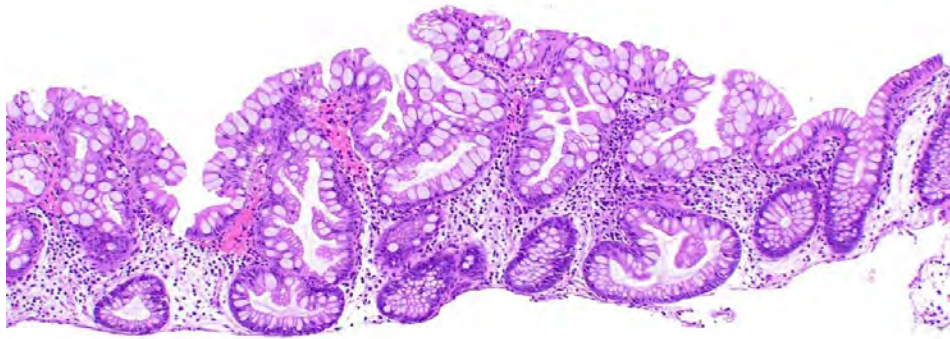
Emina Torlakovic

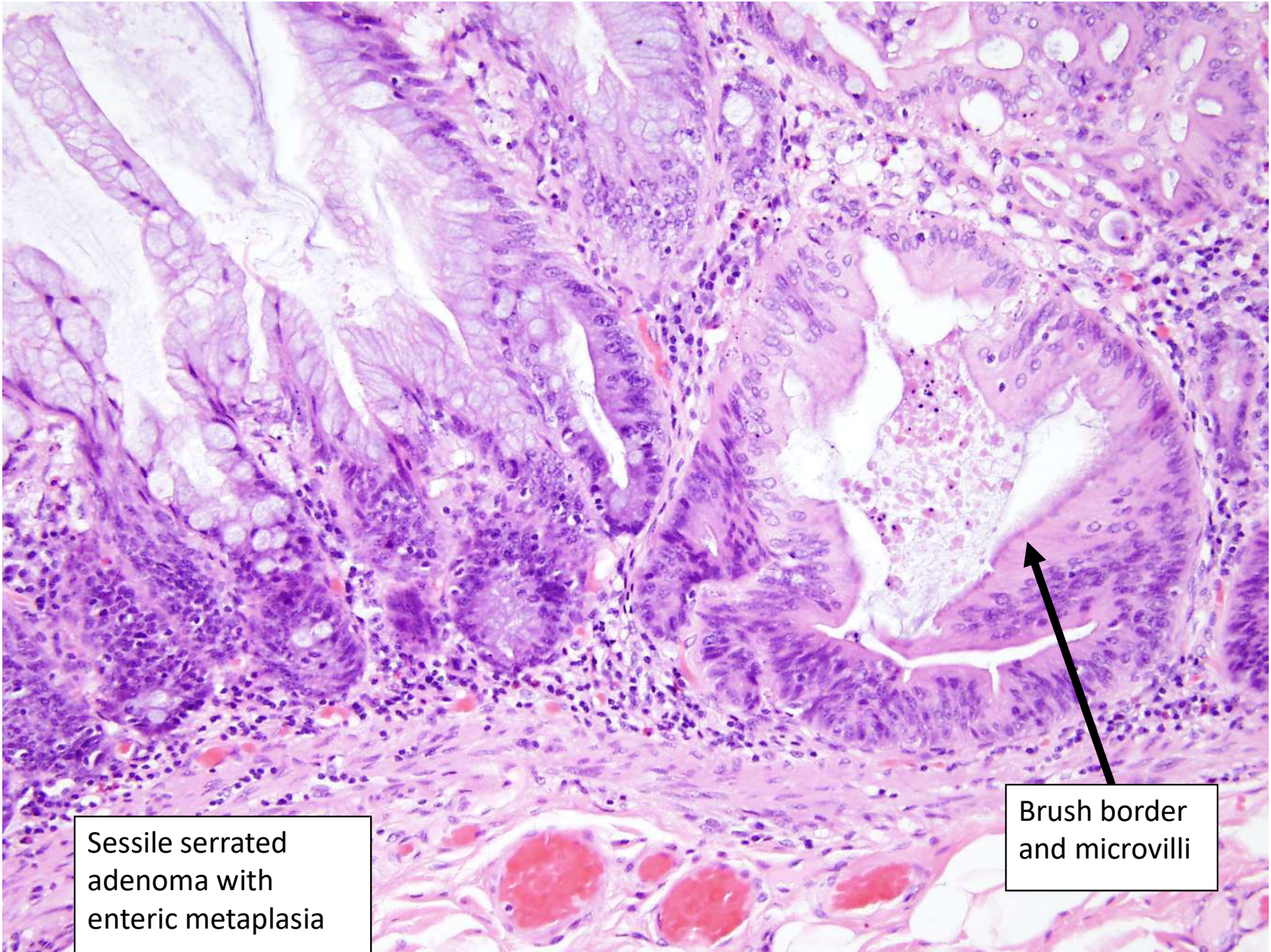


Dale Snover







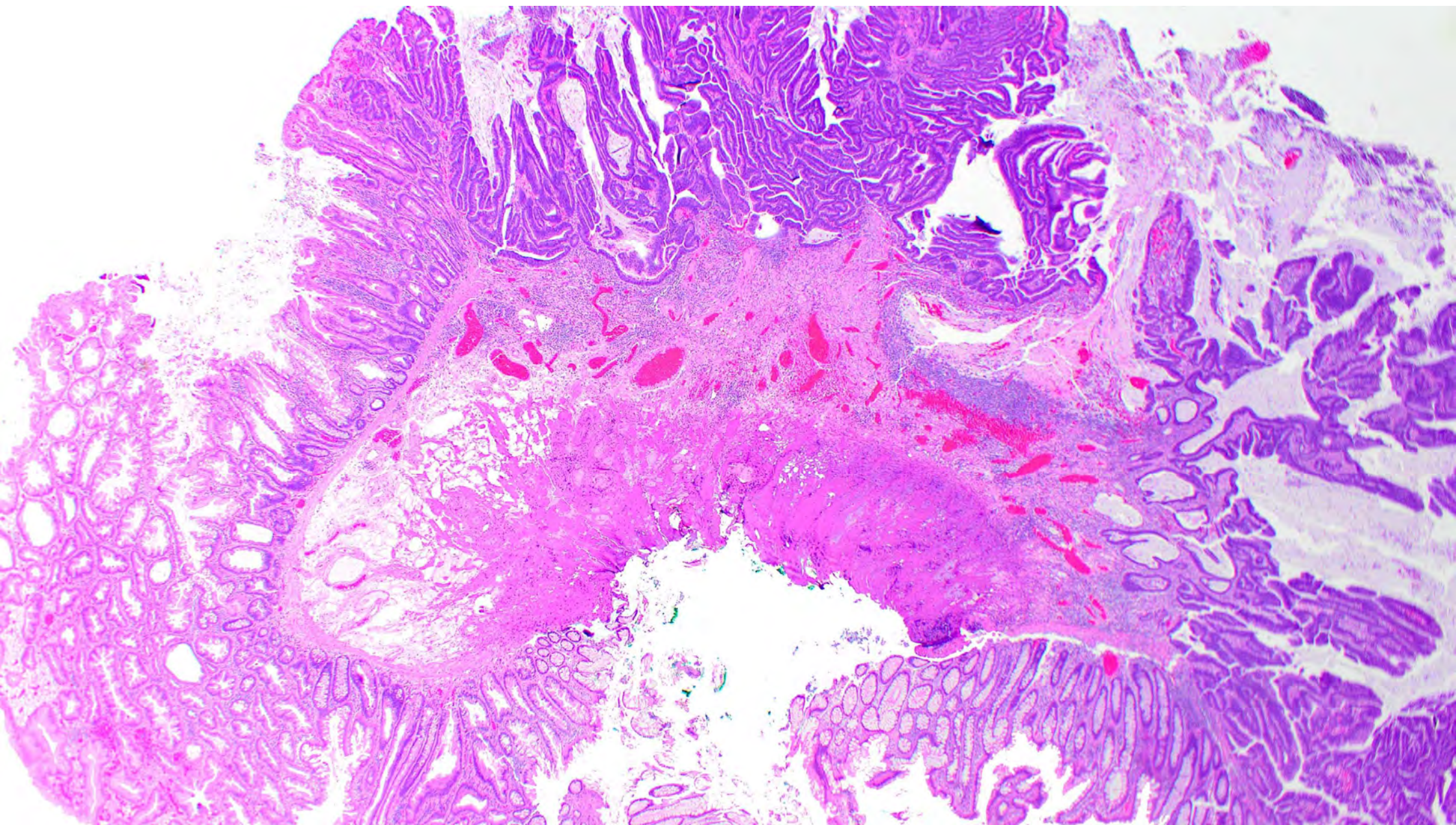


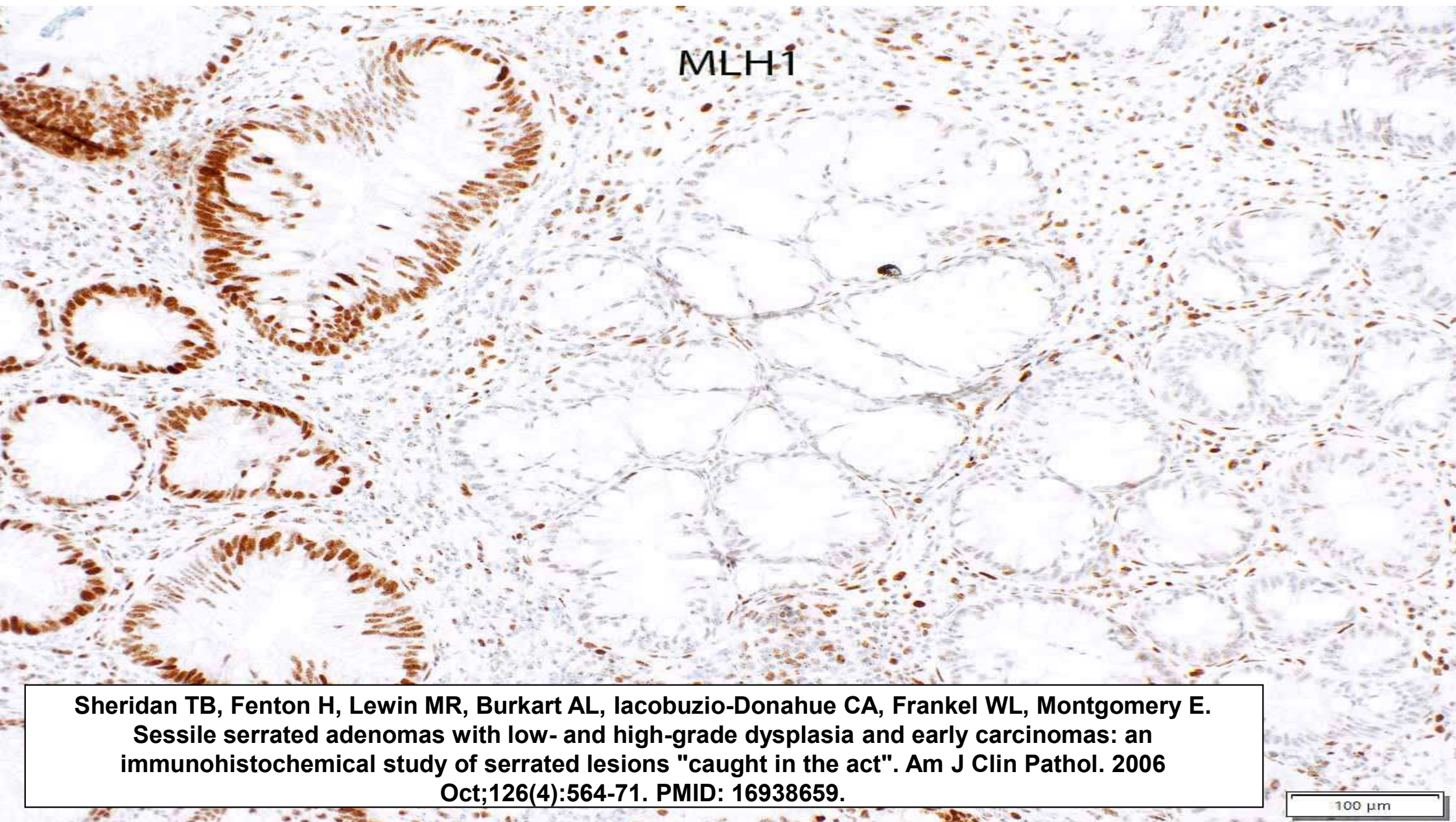
Sessile serrated
adenoma with
enteric metaplasia

Brush border
and microvilli

Mixed Polyps

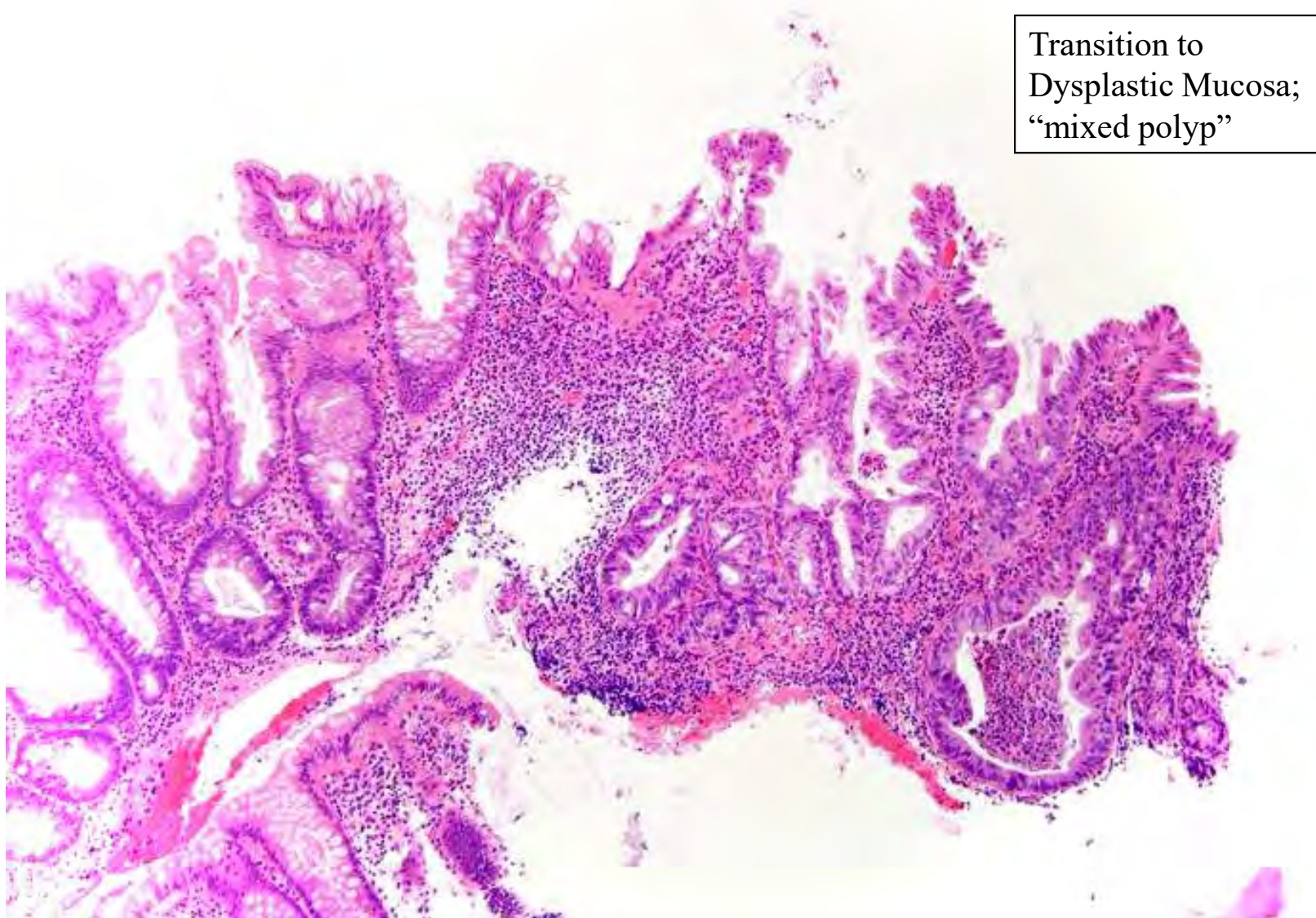
- We know know that “mixed” polyps are generally sessile serrated adenomas that are progressing

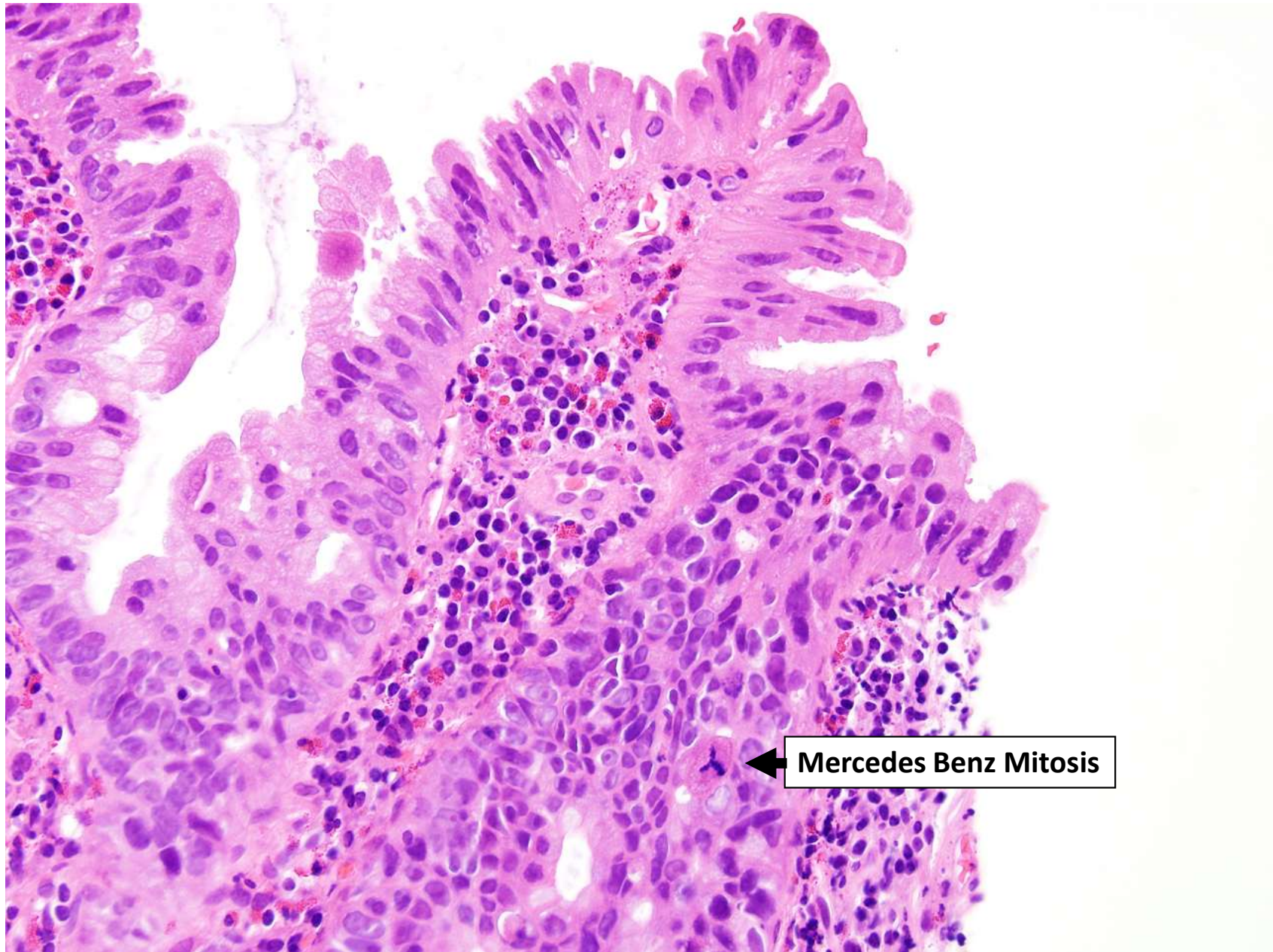


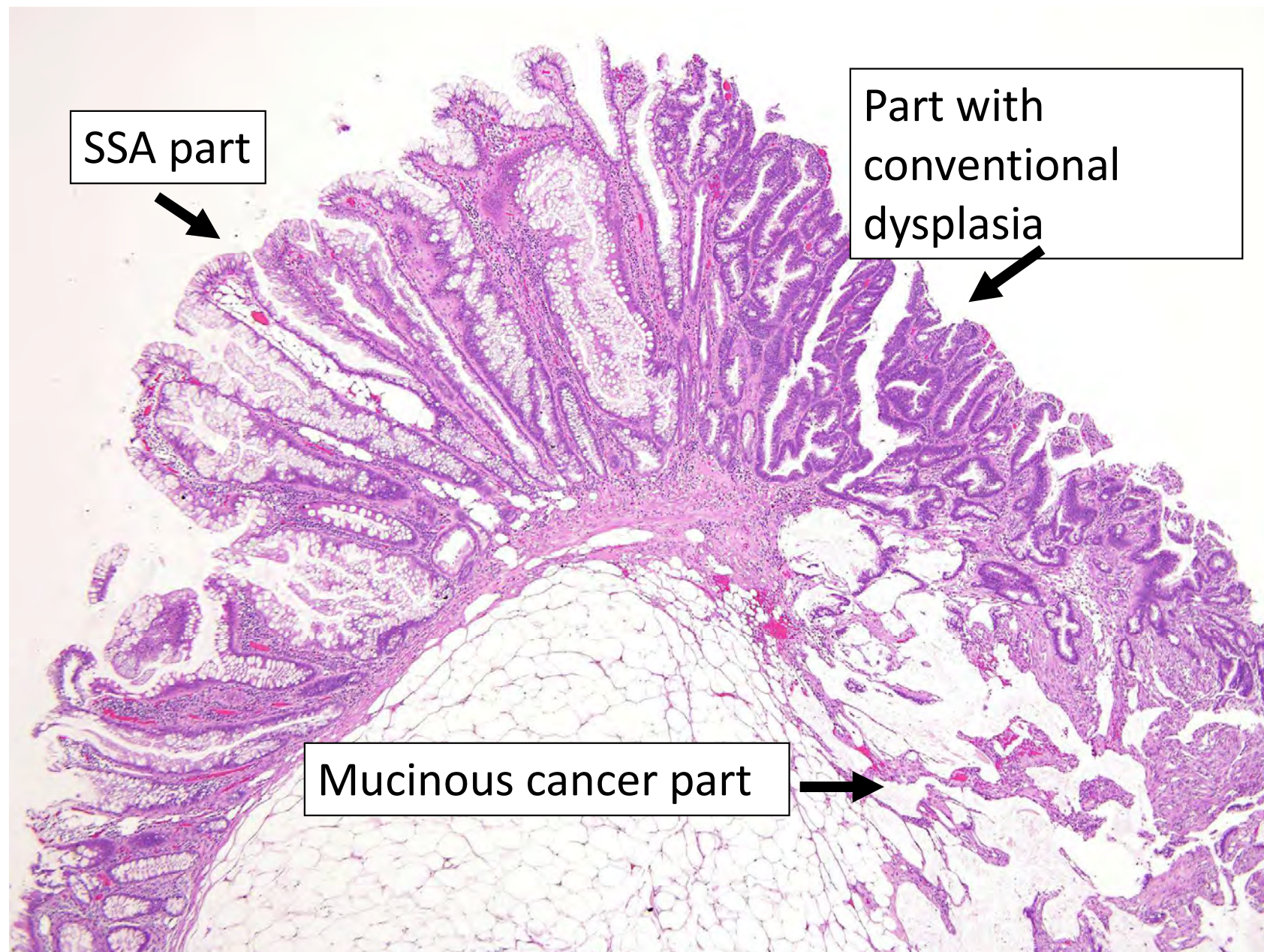


**Sheridan TB, Fenton H, Lewin MR, Burkart AL, Iacobuzio-Donahue CA, Frankel WL, Montgomery E.
Sessile serrated adenomas with low- and high-grade dysplasia and early carcinomas: an
immunohistochemical study of serrated lesions "caught in the act". Am J Clin Pathol. 2006
Oct;126(4):564-71. PMID: 16938659.**

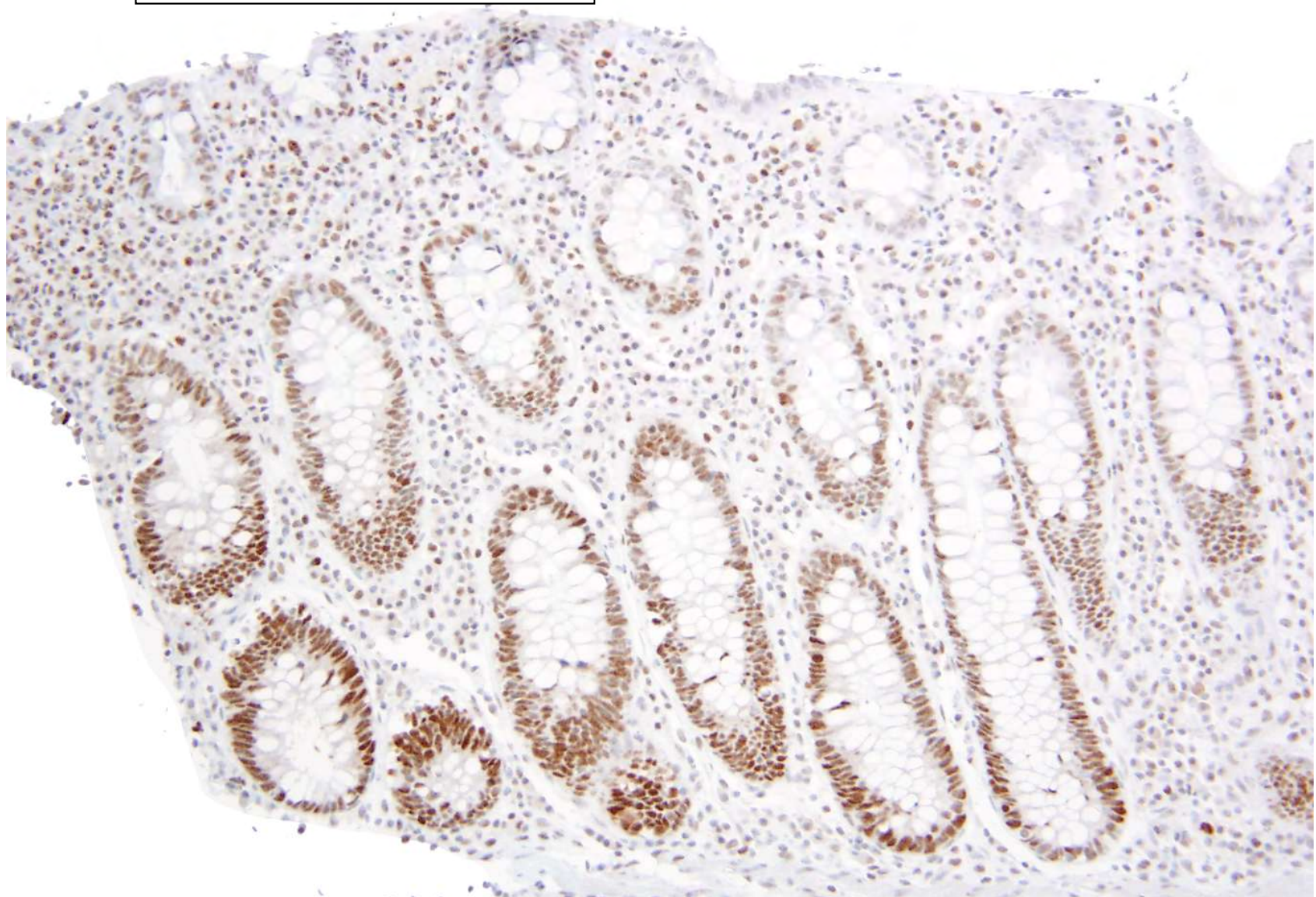
Transition to
Dysplastic Mucosa;
“mixed polyp”

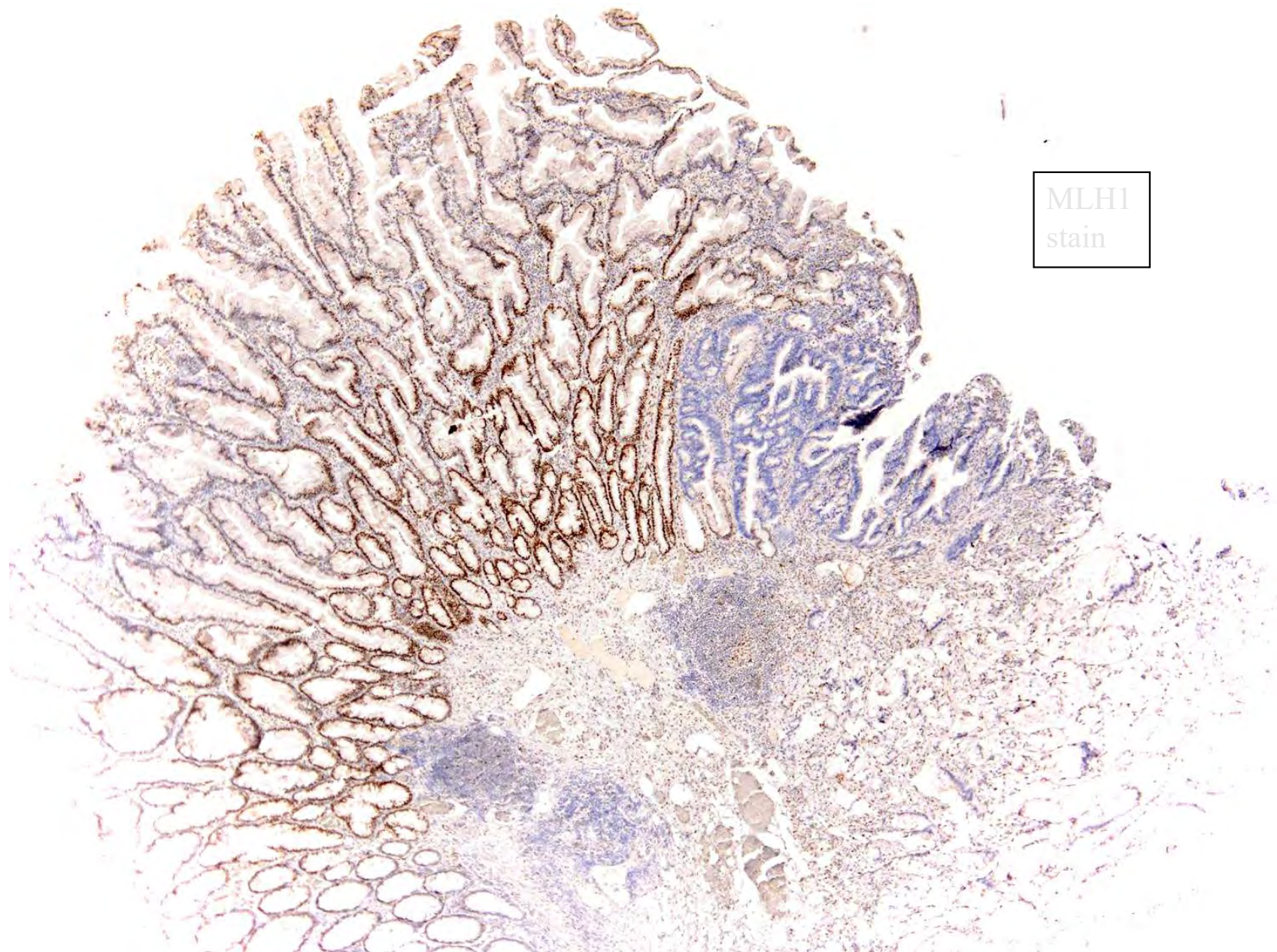




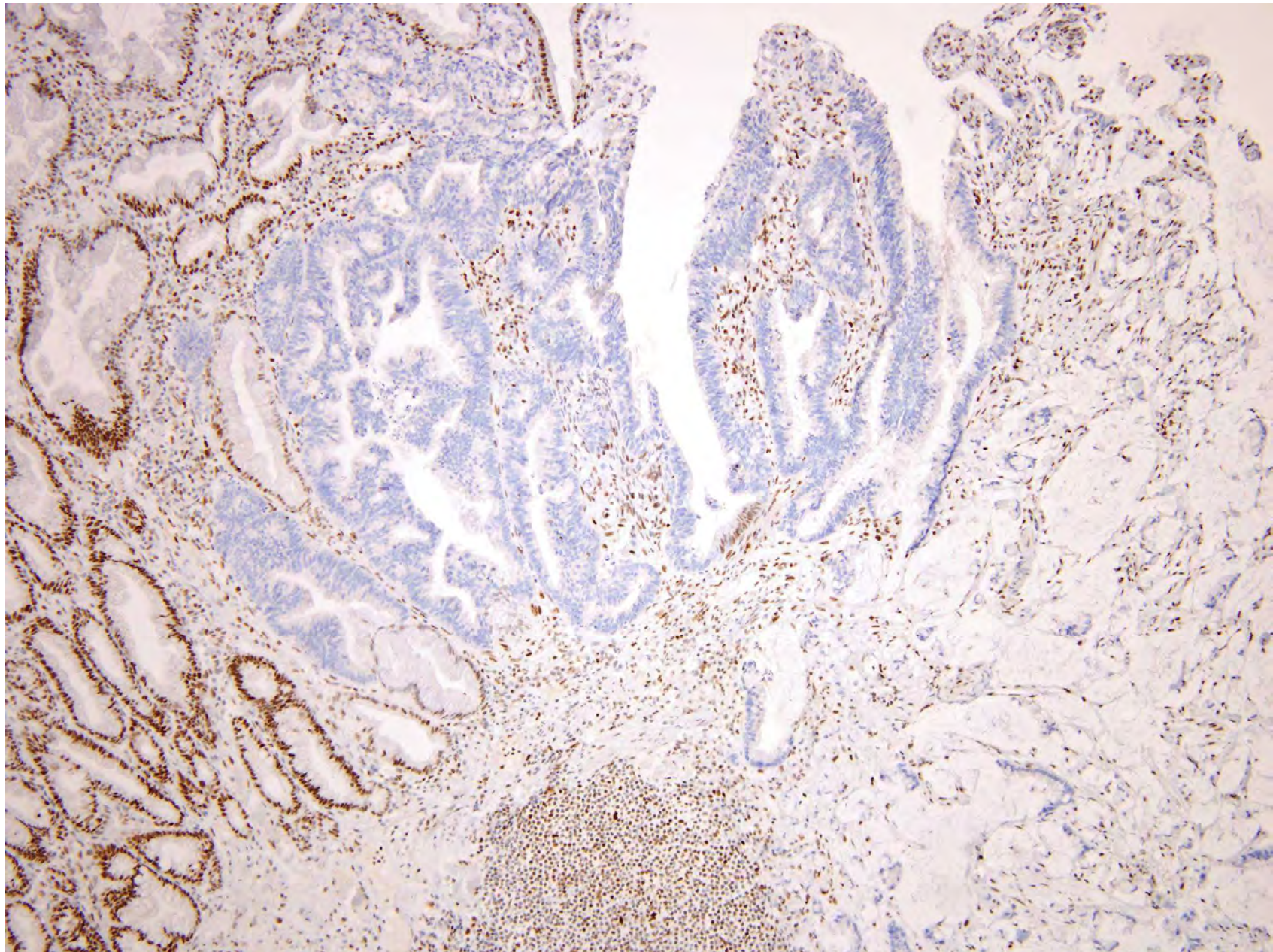


MLH1 stain, normal colon





MLH1
stain



What is the difference between a sessile serrated adenoma and a traditional serrated adenoma?

- Longacre TA, Fenoglio-Preiser CM. Mixed hyperplastic adenomatous polyps/serrated adenomas. A distinct form of colorectal neoplasia. Am J Surg Pathol. 1990 Jun;14(6):524-37. PMID: 2186644.
- Yantiss RK, Oh KY, Chen YT, Redston M, Odze RD. Filiform serrated adenomas: a clinicopathologic and immunophenotypic study of 18 cases. Am J Surg Pathol. 2007 Aug;31(8):1238-45. PMID: 17667549.

Teri Longacre



Cecilia Fenoglio-Preisner



Rhonda Yantiss



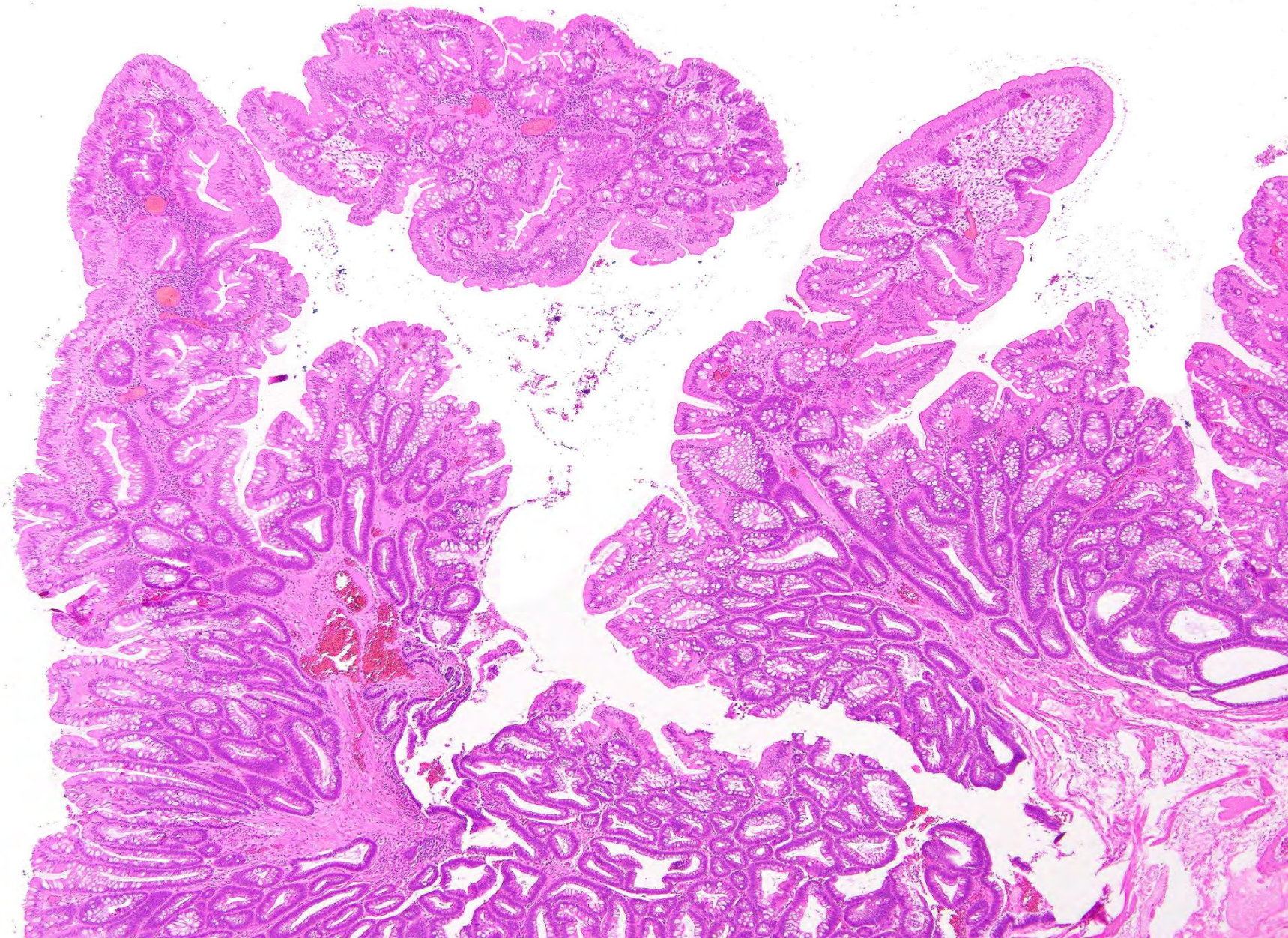
Sessile Serrated Adenoma

- Looks like HP
- Lacks conventional dysplasia
- Right side 70%+

Traditional Serrated Adenoma

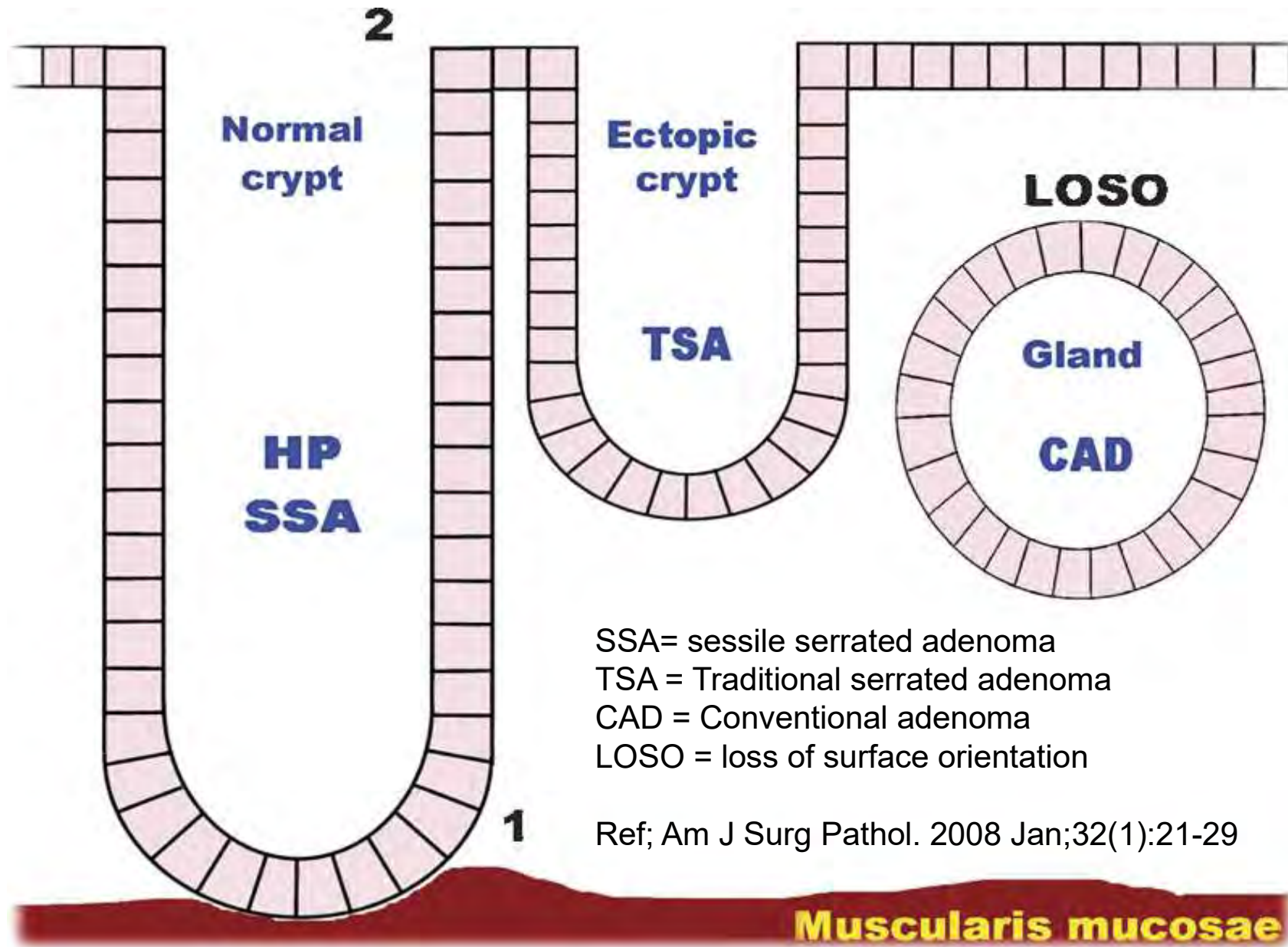
- Has pink cytoplasm and serration
- Has “pencillate” elongated nuclei that are slimmer and less hyperchromatic than those in tubular adenoma
- Left side 70%+

**Traditional
Serrated
Adenoma**

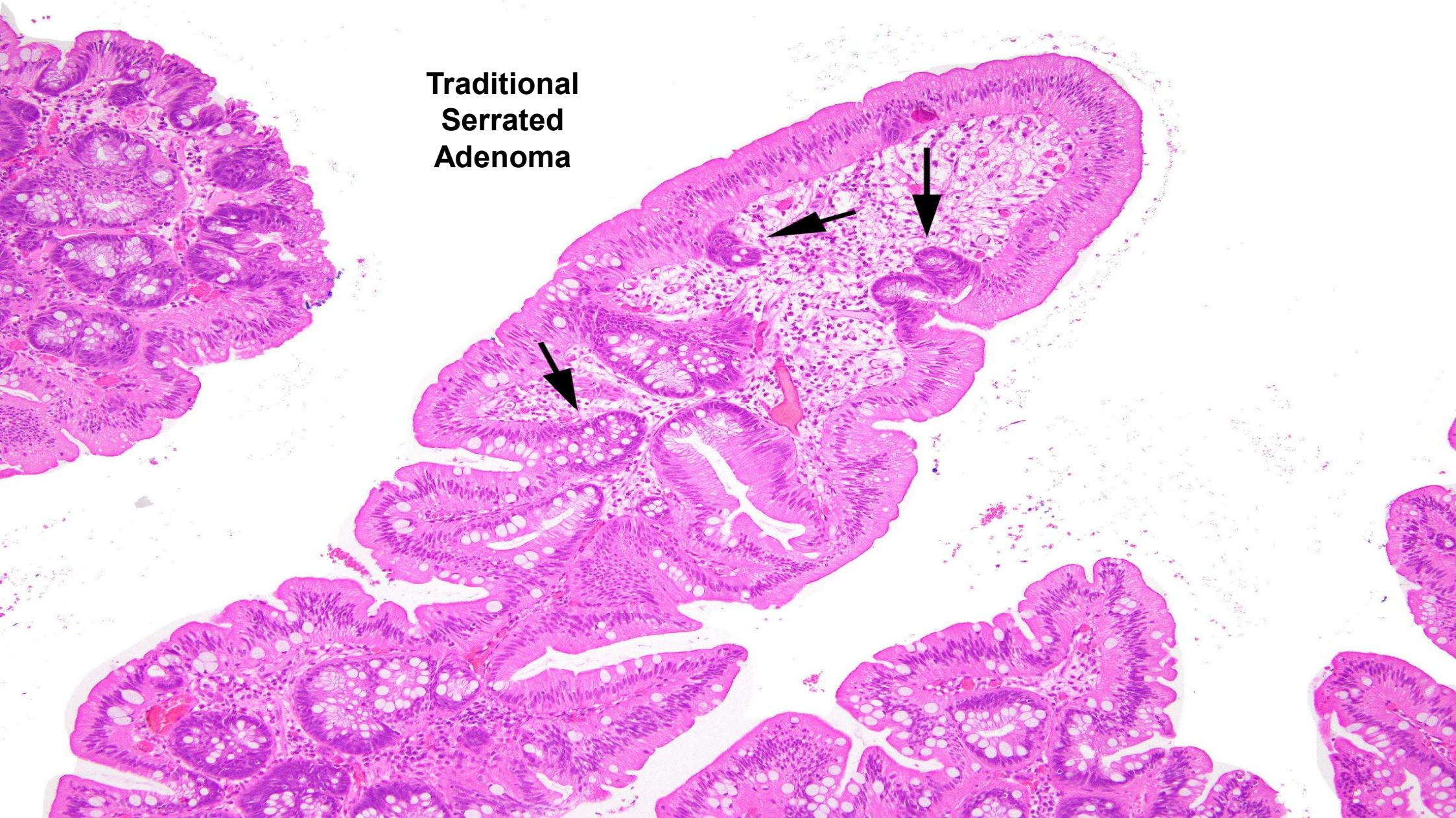


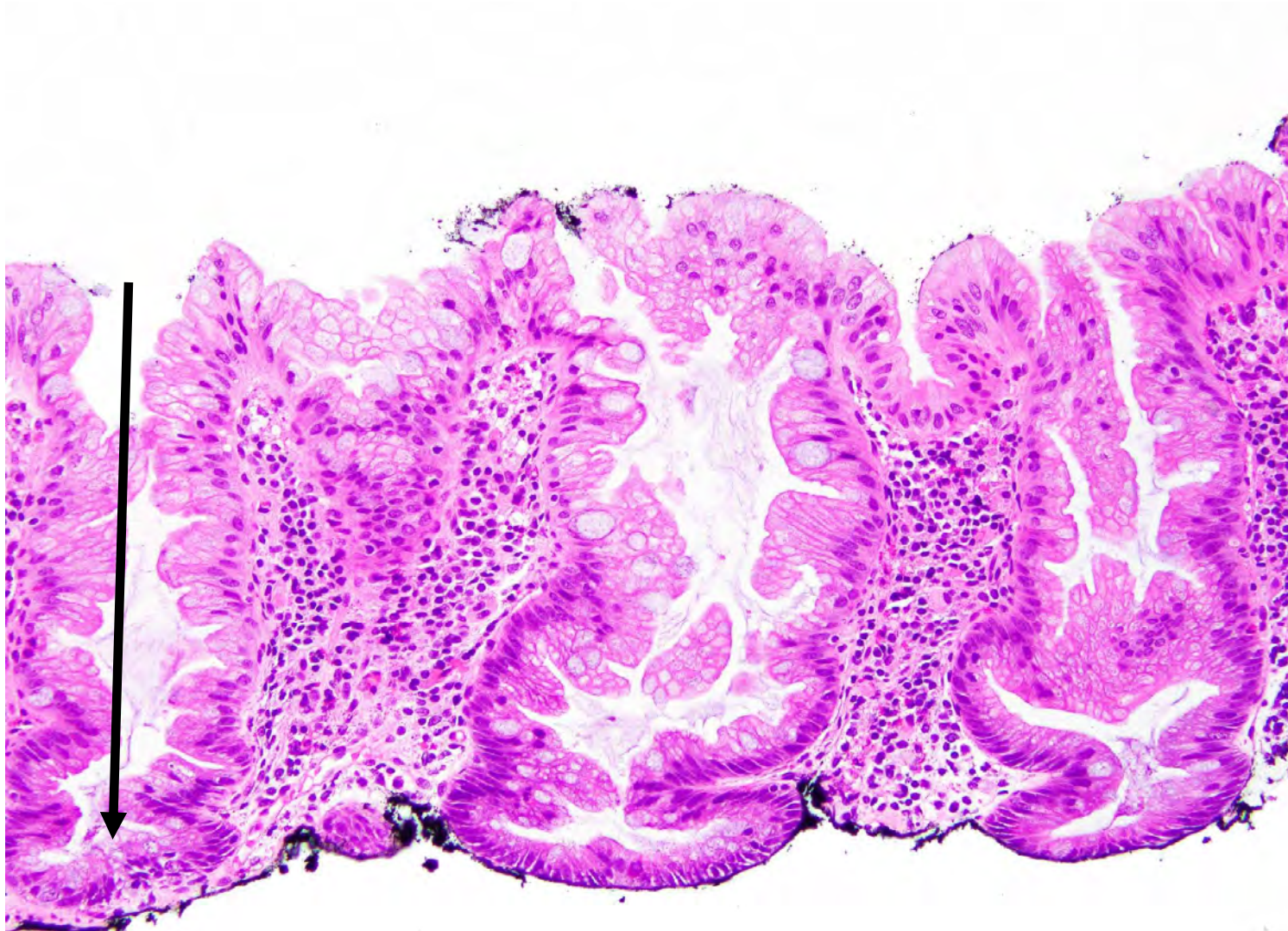
More Torlakovic and Snover

- Characteristic architecture for traditional serrated adenoma (“ectopic crypt formation”) and more features to help in DDX
- [Torlakovic EE, Gomez JD, Driman DK, Parfitt JR, Wang C, Benerjee T, Snover DC.](#) Sessile Serrated Adenoma (SSA) vs. Traditional Serrated Adenoma (TSA). Am J Surg Pathol. 2008 Jan;32(1):21-29.

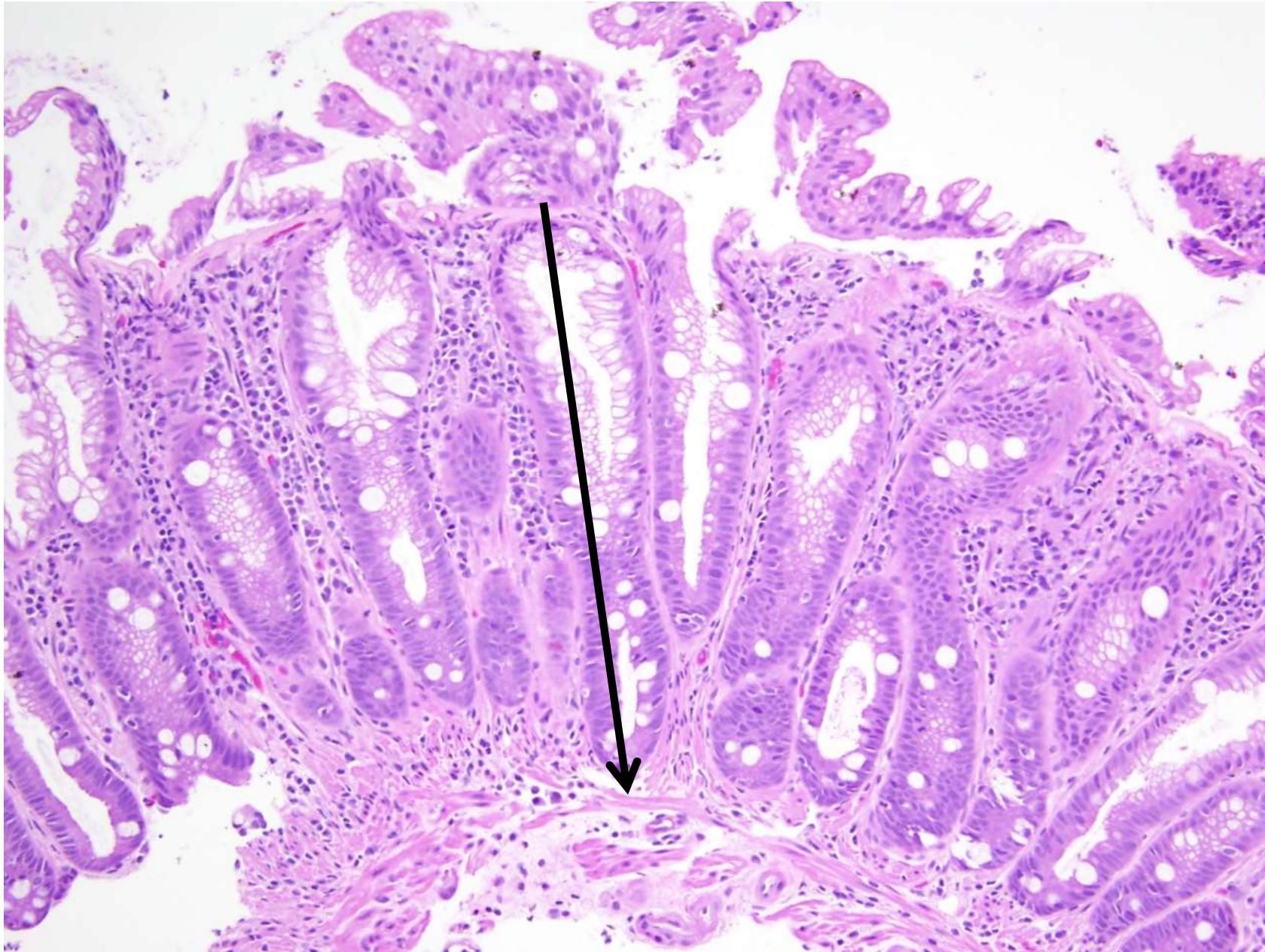


**Traditional
Serrated
Adenoma**

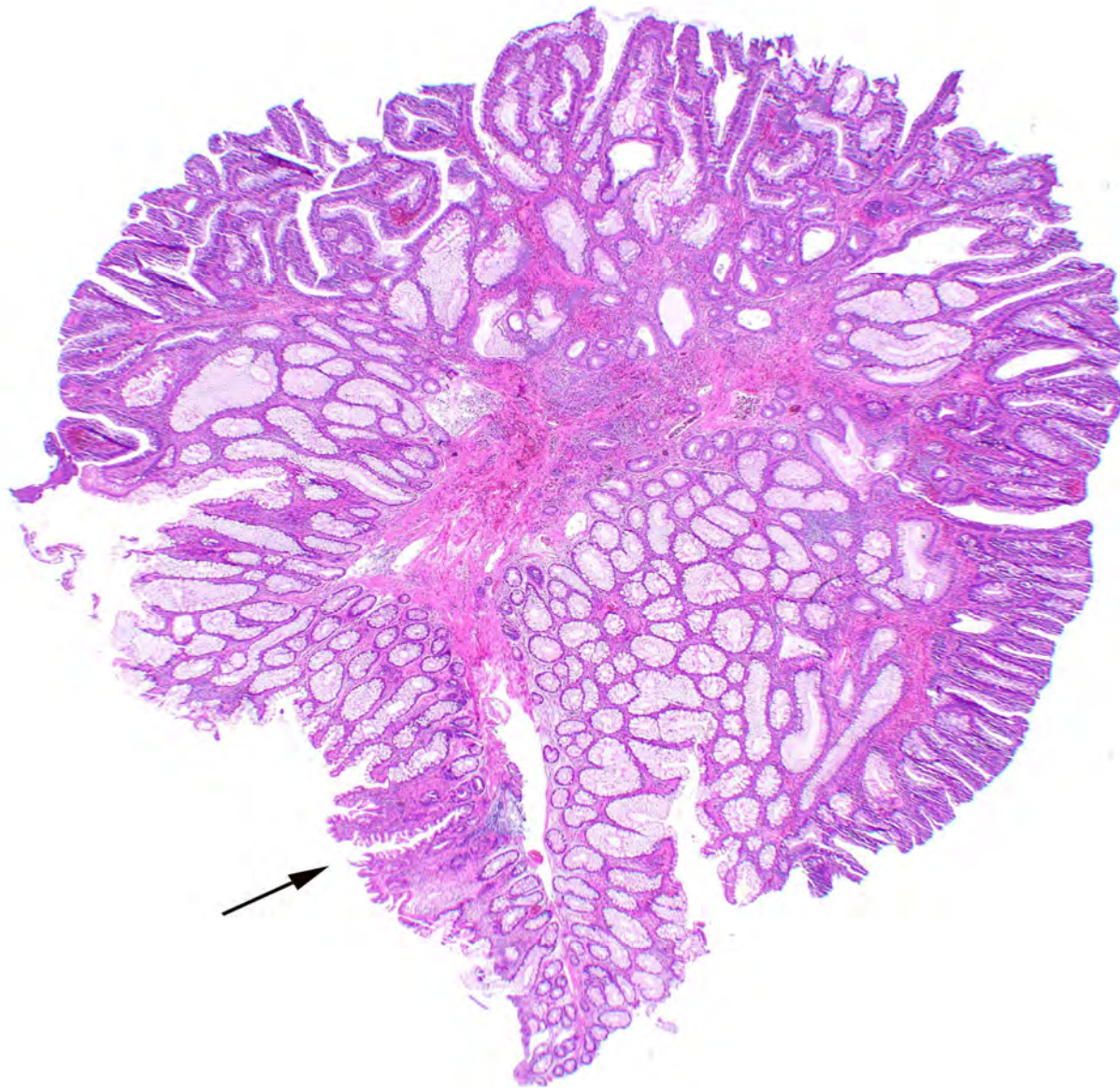




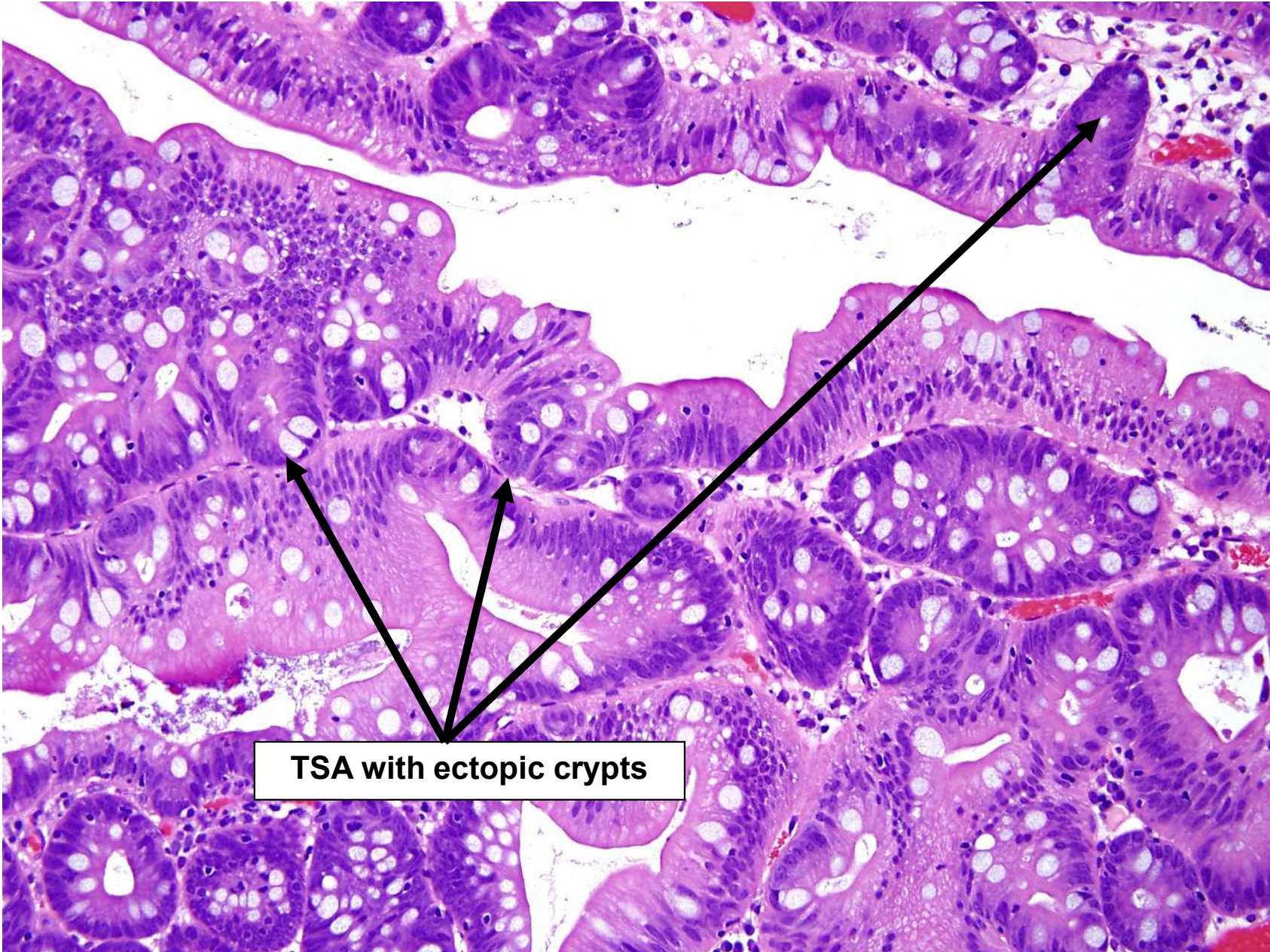
Sessile serrated adenoma — one can make a line from the lumen to the muscularis mucosae in perfectly embedded zones



**Hyperplastic
polyp - one
can make a
line from the
lumen to the
muscularis
mucosae**

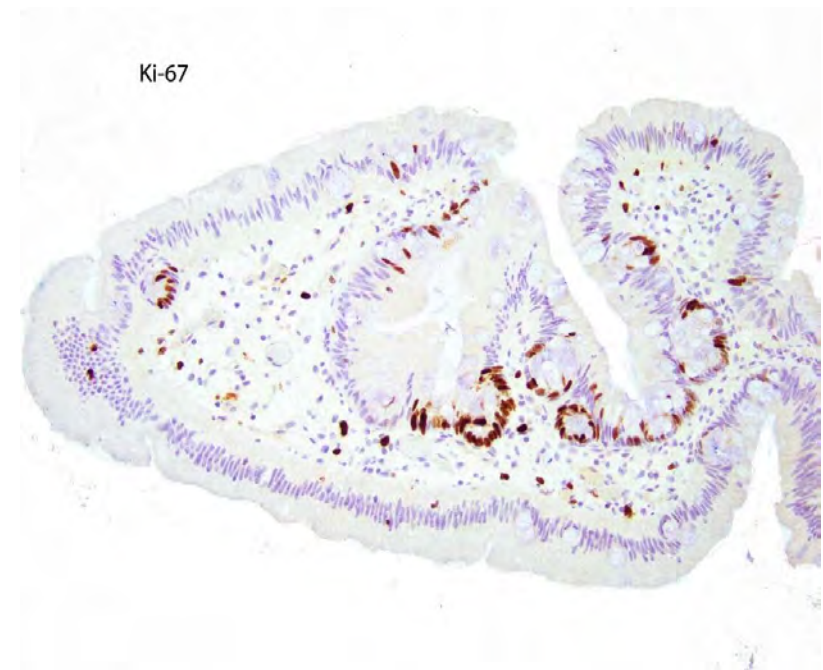
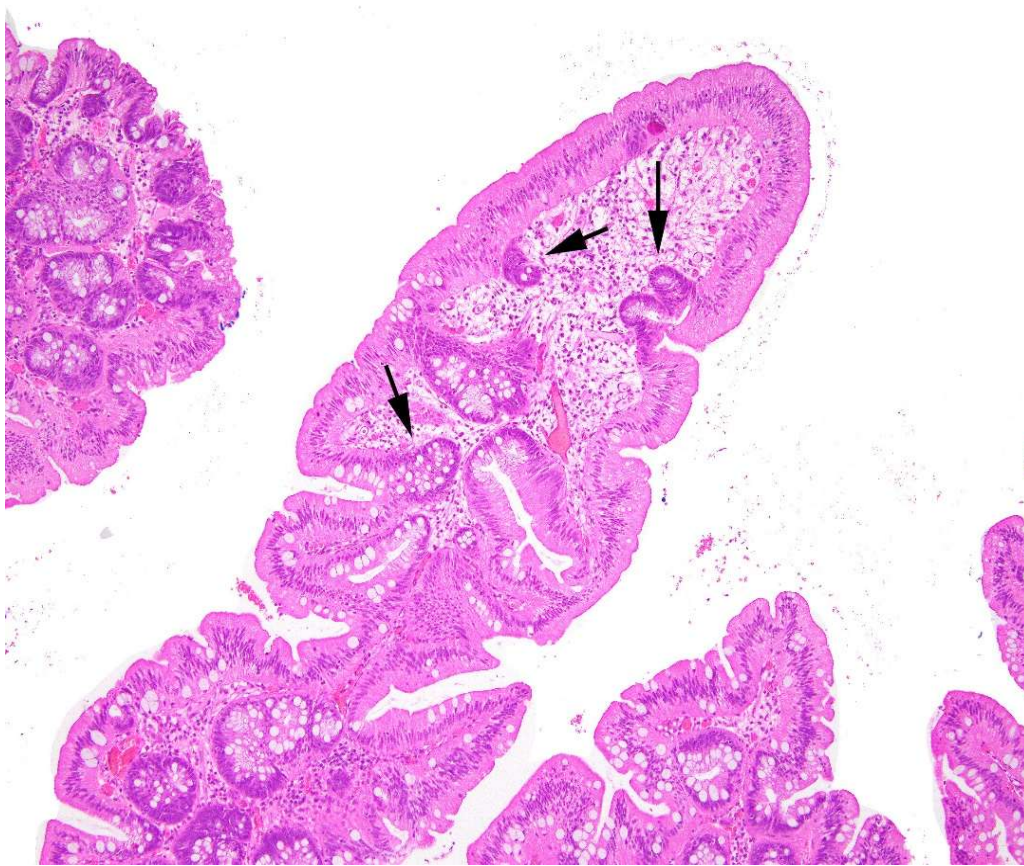


**Tubular
adenoma –
completely
disorganized
tubules (note
the interloper
hyperplastic
polyp in the
stalk with well-
aligned
architecturally
normal crypts)**



TSA with ectopic crypts

Proliferation in Traditional Serrated Adenoma

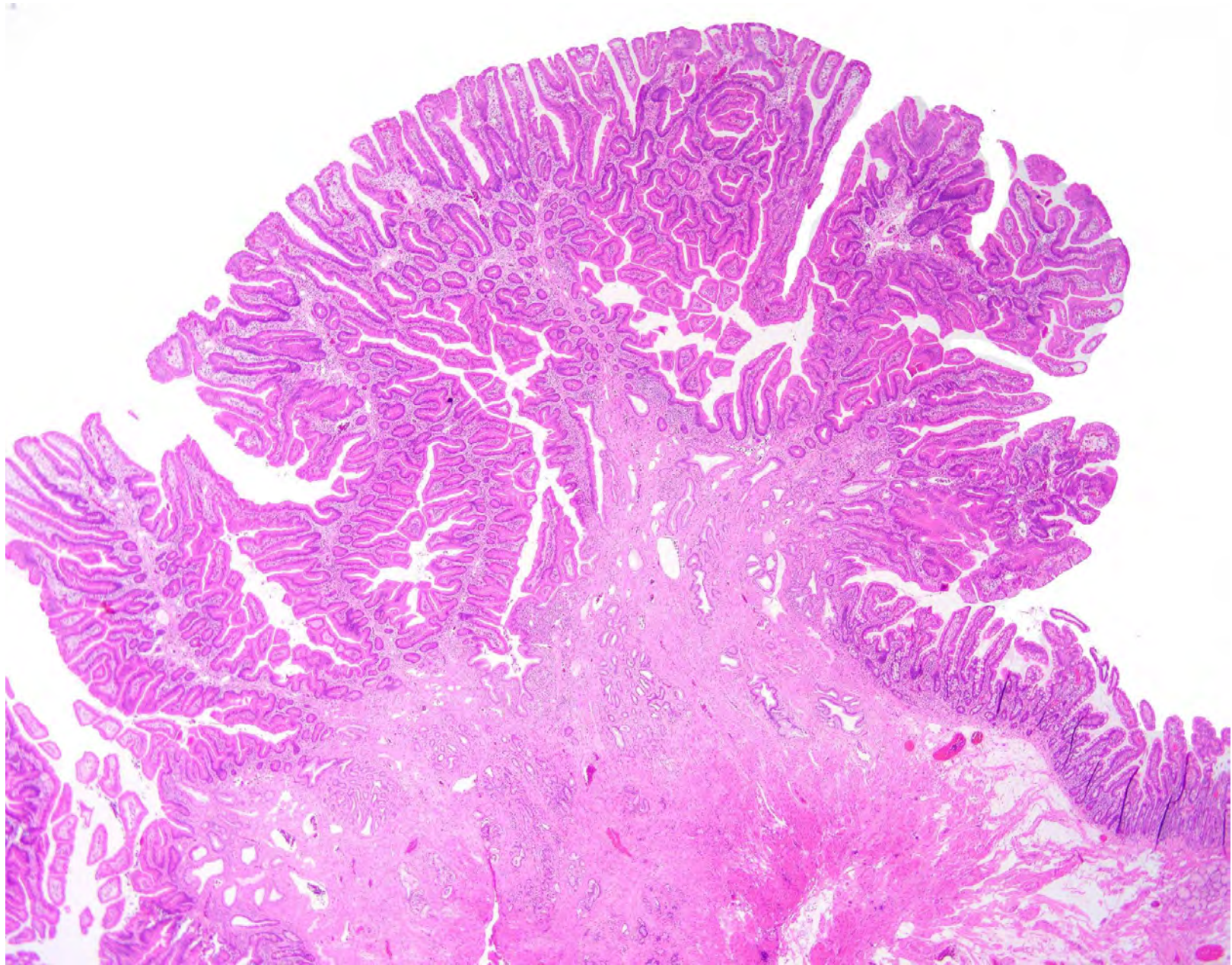


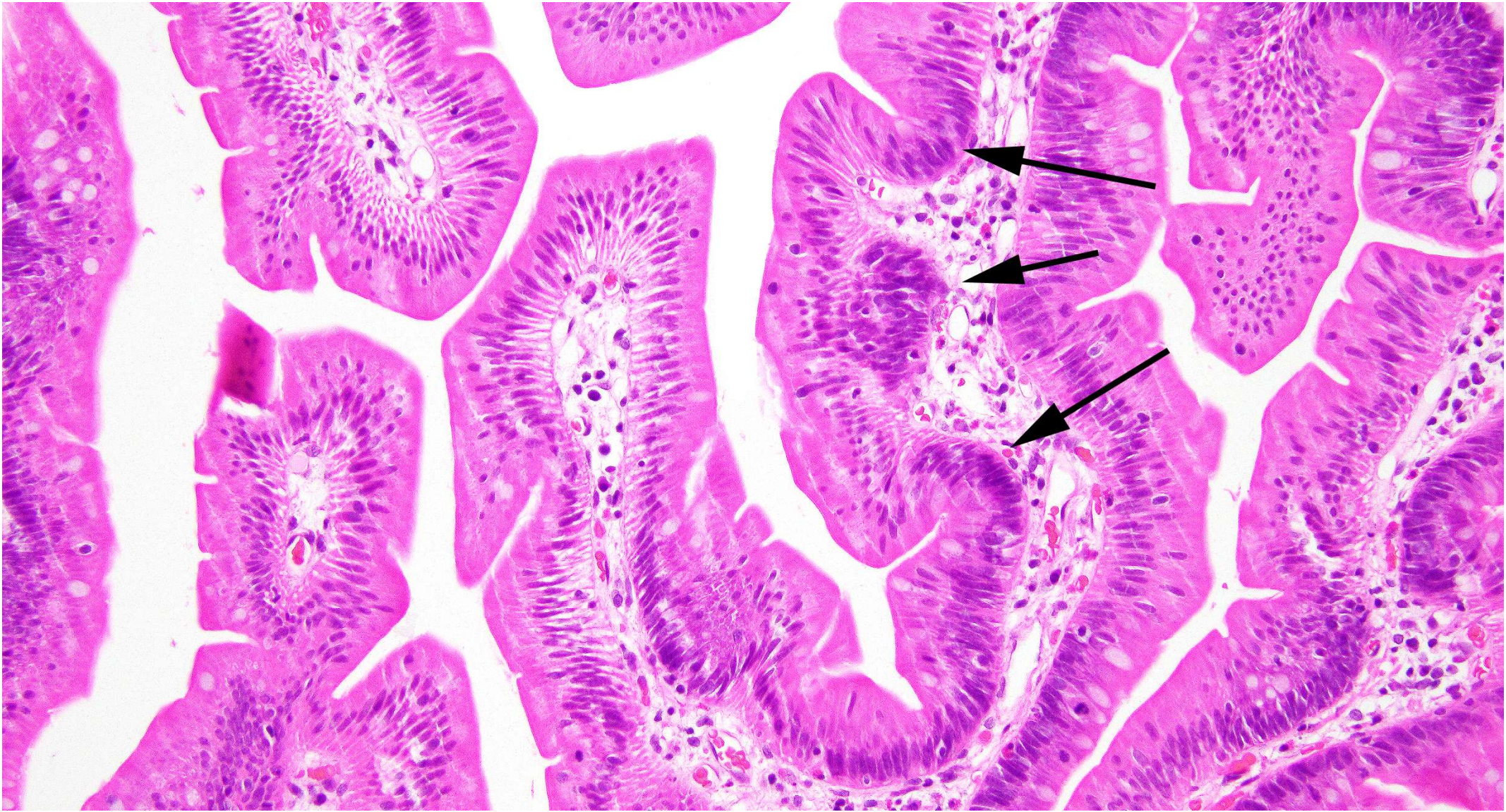
Traditional Serrated Adenoma of Small Bowel

- More common than we have noticed
 - Similar molecular profile to that of colorectal lesions
 - Sporadic and FAP-associated
 - *BRAF*-serrated pathway does not contribute to their pathogenesis
-
- Rosty C, Campbell C, Clendenning M, Bettington M, Buchanan DD, Brown IS. Do serrated neoplasms of the small intestine represent a distinct entity? Pathological findings and molecular alterations in a series of 13 cases. *Histopathology*. 2015 Feb;66(3):333-42.
 - Alruwaili ZI, Chianchiano P, Larman T, Wilentz A, Wood LD, Montgomery EA. Familial Adenomatous Polyposis-associated Traditional Serrated Adenoma of the Small Intestine: A Clinicopathologic and Molecular Analysis. *Am J Surg Pathol*. 2021 Dec 1;45(12):1626-1632. PMID: 34232600.

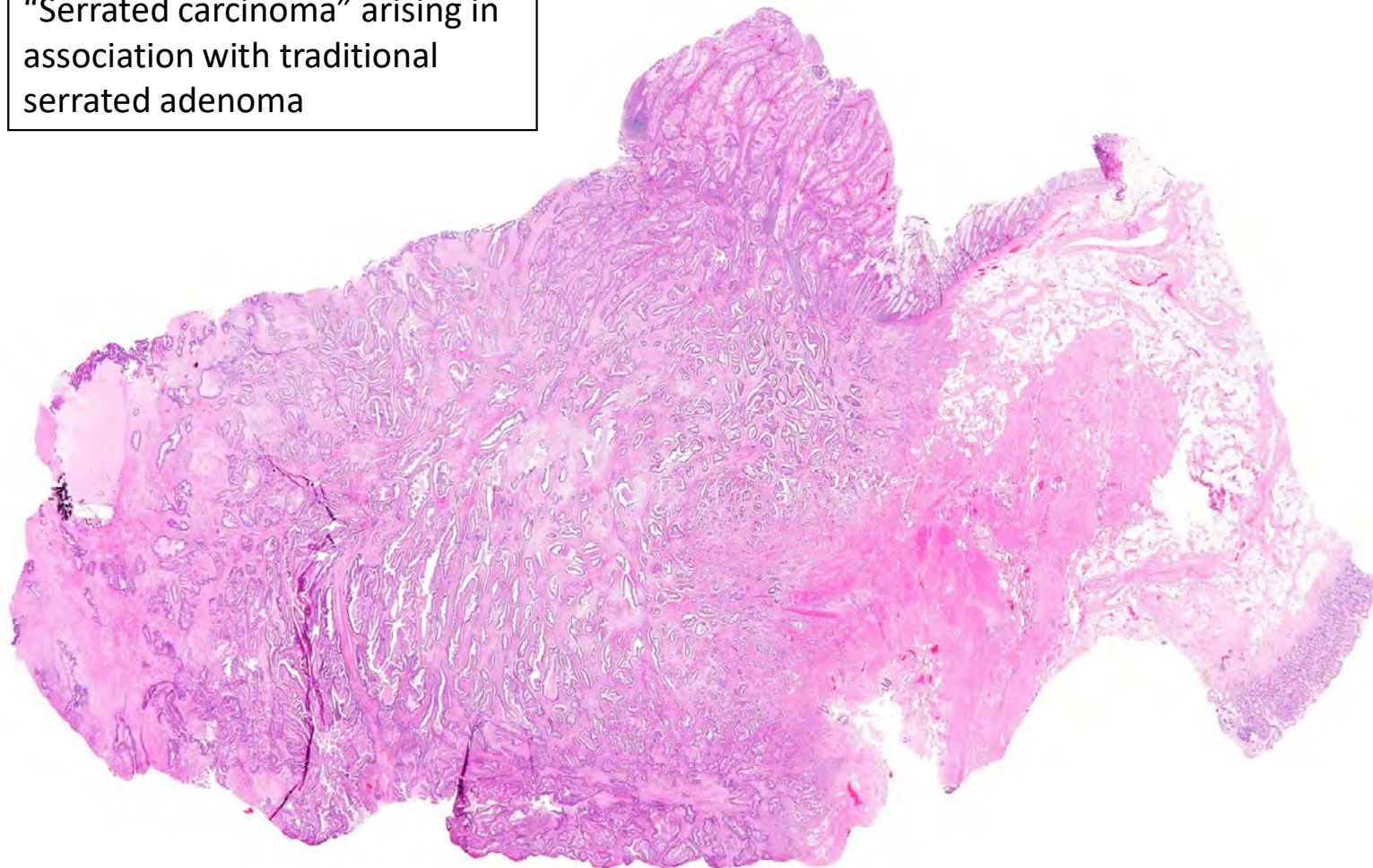
**Small
intestinal
polyp**

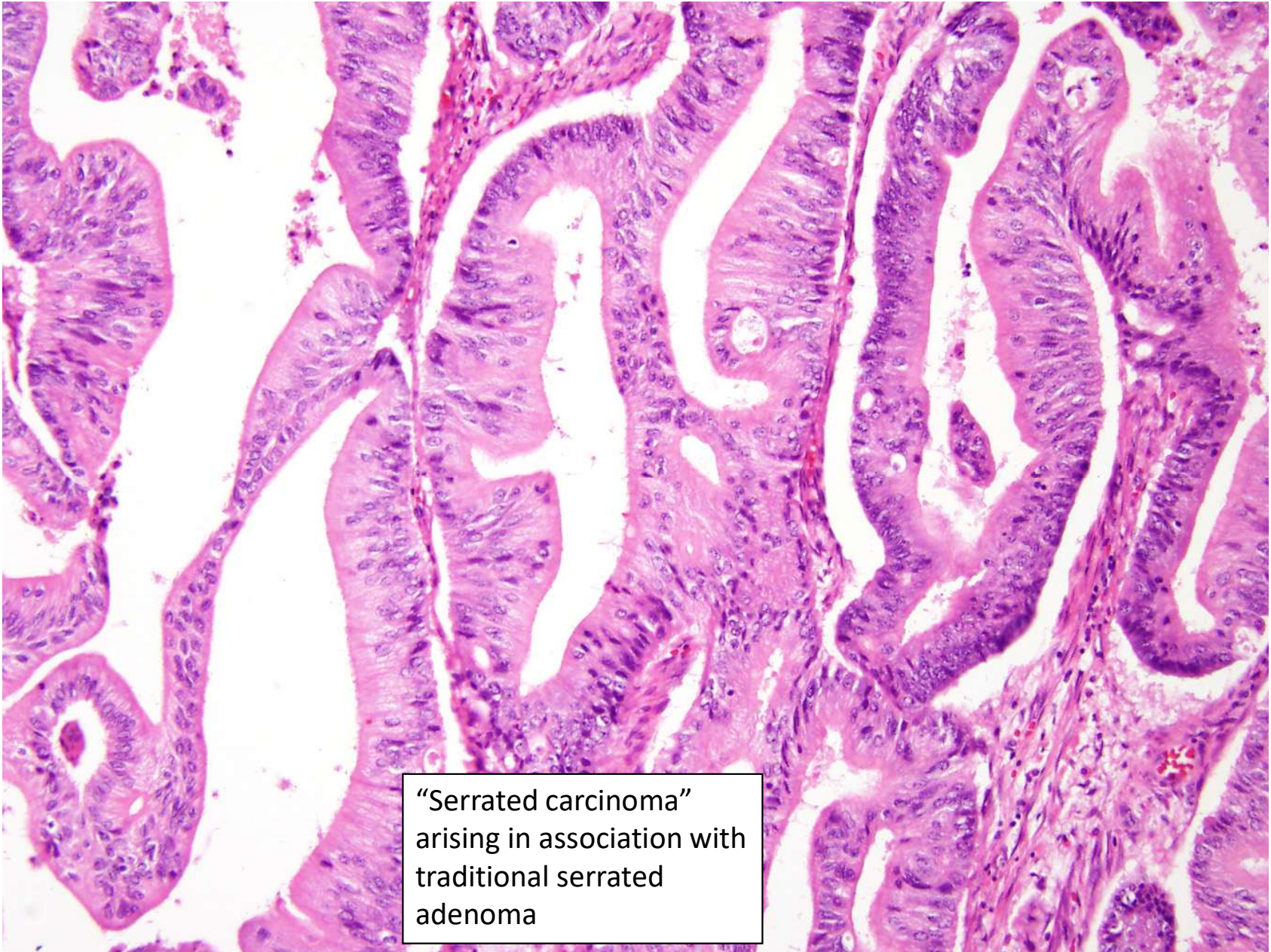






“Serrated carcinoma” arising in
association with traditional
serrated adenoma





“Serrated carcinoma”
arising in association with
traditional serrated
adenoma

Genes in TSA

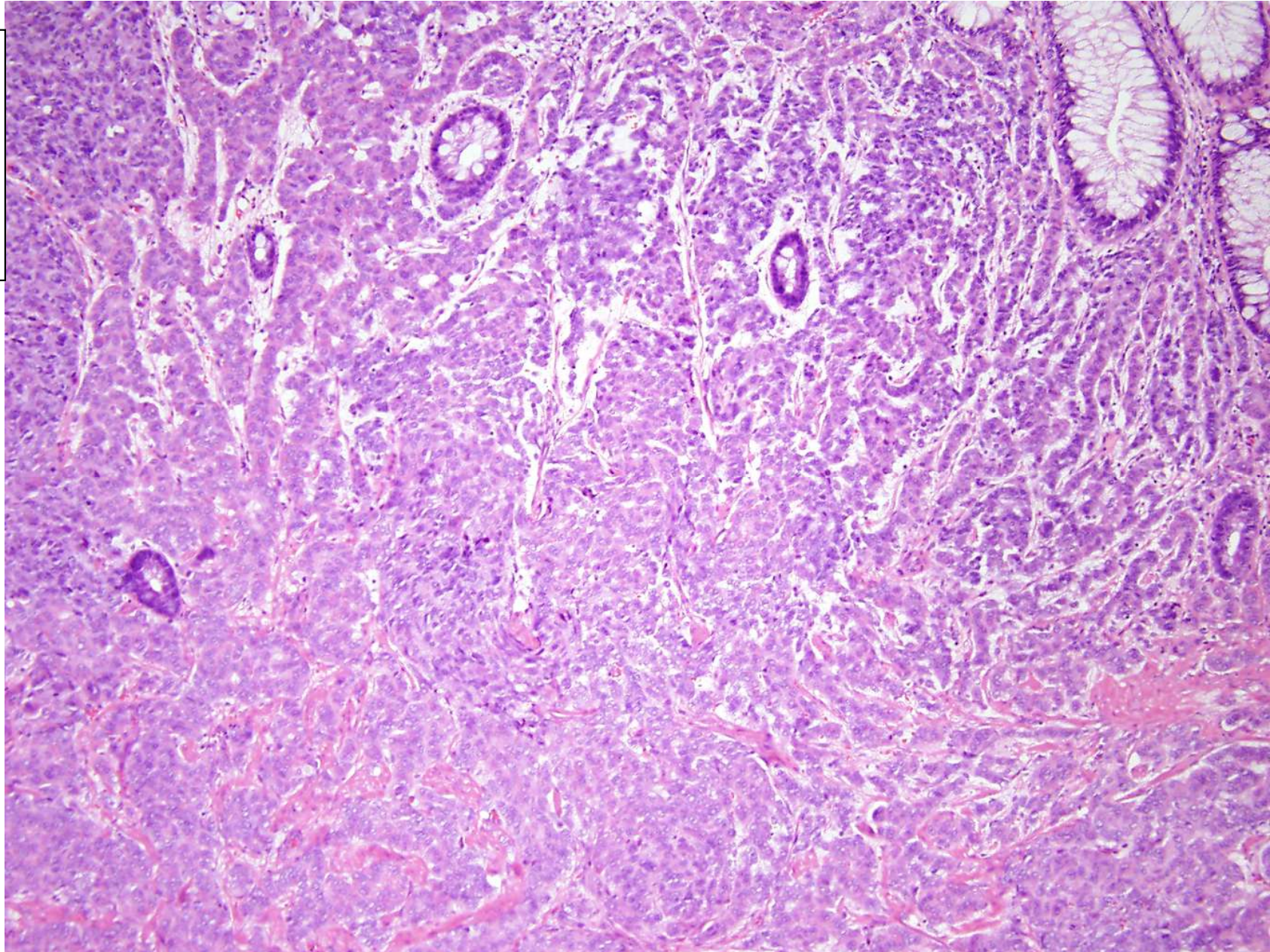
- Mixed bag:
- Both *KRAS* and *BRAF* mutations
- No loss of MLH1 in advanced lesions
- P16 loss in advanced areas (high grade dysplasia) of *BRAF* mutant cases – ? precursor for aggressive *BRAF* mutant MSS cancers
- Bettington ML, Walker NI, Rosty C, Brown IS, Clouston AD, McKeone DM, Pearson SA, Klein K, Leggett BA, Whitehall VLj. A clinicopathological and molecular analysis of 200 traditional serrated adenomas. Mod Pathol. 2015 Mar;28(3):414-27.
- Fu B, Yachida S, Morgan R, Zhong Y, Montgomery EA, Iacobuzio-Donahue CA. Clinicopathologic and genetic characterization of traditional serrated adenomas of the colon. Am J Clin Pathol. 2012 Sep;138(3):356-66.

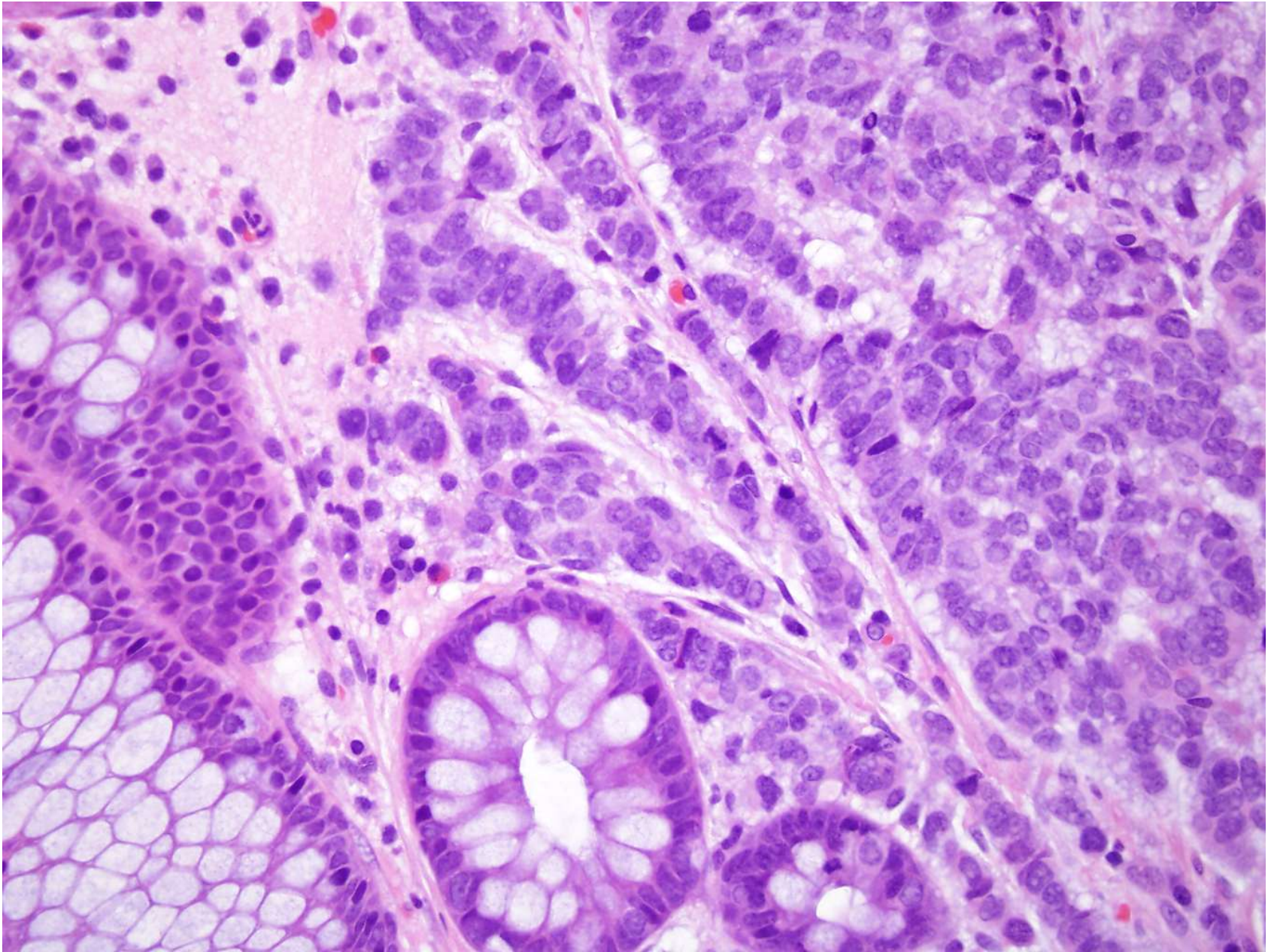
Colorectal well differentiated neuroendocrine tumors

- Most are rectal, small and indolent, with a 5-year survival rate of about 90%.
- Tumor size and muscularis propria invasion are the key predictors of malignant behavior in NETs.
- Rectal WDNETs larger than 2.0 cm or showing locoregional lymph node involvement are managed as per rectal adenocarcinomas
- Small tumors (1-2 cm) confined to the mucosa and submucosa are managed by endoscopic polypectomy.
- Patients with small tumors (1-2 cm) showing muscularis propria invasion but without lymph node metastases on endoscopic ultrasound are managed with transanal excision.
- About (10%) of GI tract NETs arise in the proximal colon (mostly the cecum); larger, more aggressive tumors.
- L cell types are considered indolent (glucagon like peptide (GLP) or PP/PYY producing tumors)
- Those that express chromogranin (rather than synaptophysin only) are slightly more aggressive.

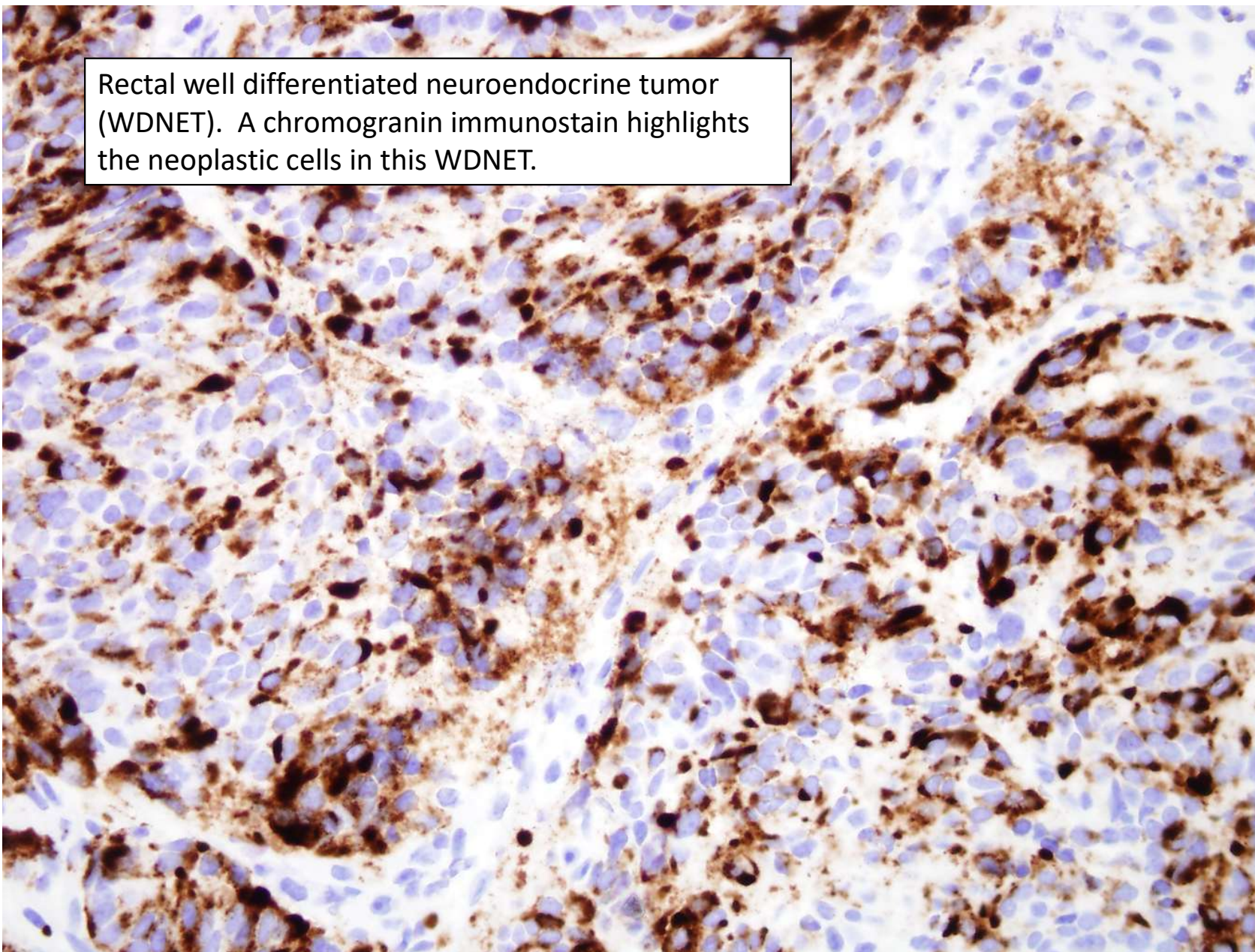
Kim J, Kim JY, Oh EH, Yoo C, Park IJ, Yang DH, Ryoo BY, Ryu JS, Hong SM. Chromogranin A Expression in Rectal Neuroendocrine Tumors Is Associated With More Aggressive Clinical Behavior and a Poorer Prognosis. Am J Surg Pathol. 2020 Nov;44(11):1496-1505. PMID: 32735108.

Rectal well differentiated neuroendocrine (carcinoid) tumor (WDNET). The tumor grows in cords, similar to neuroendocrine neoplasms in other organs.

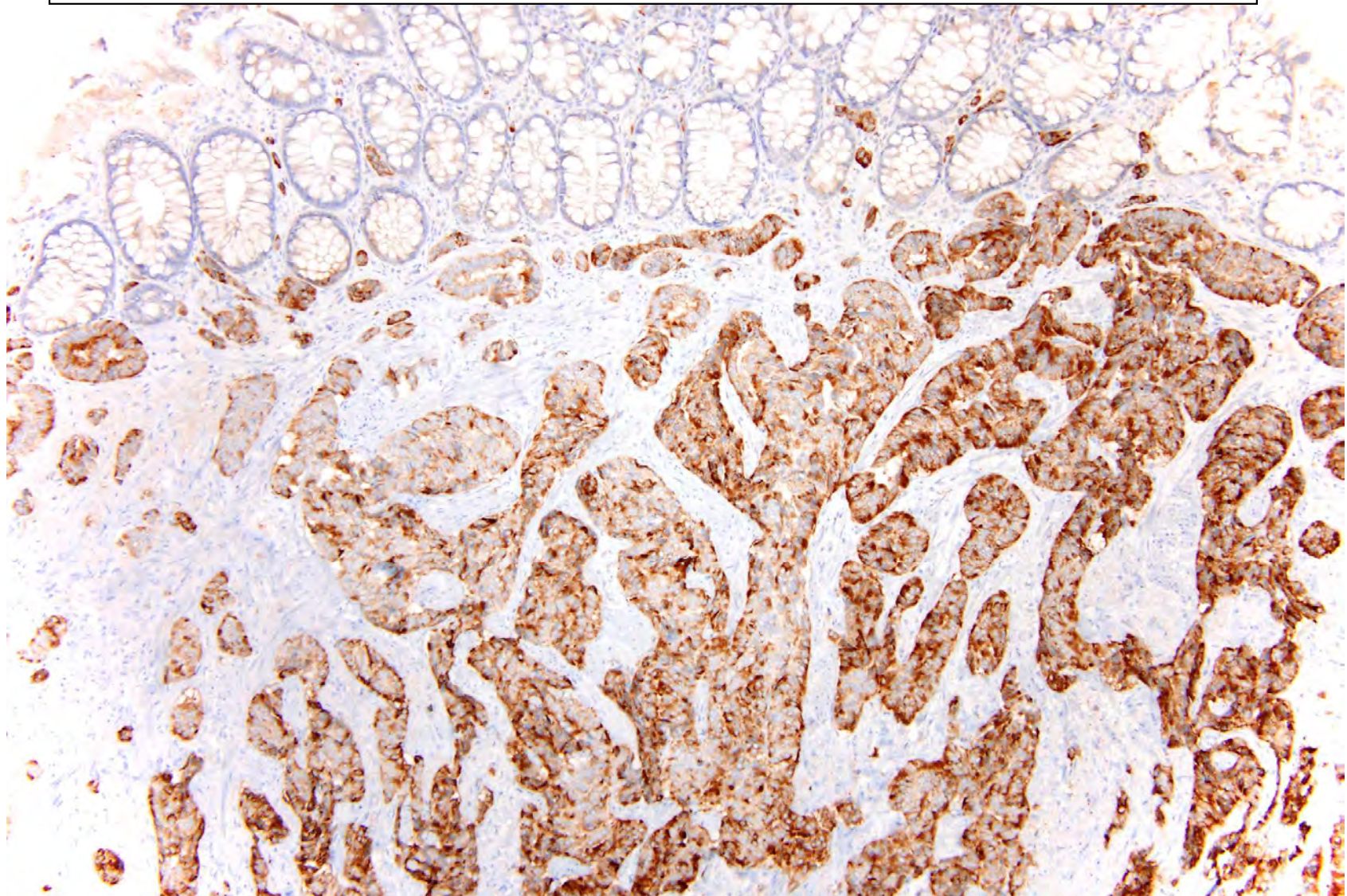




Rectal well differentiated neuroendocrine tumor (WDNET). A chromogranin immunostain highlights the neoplastic cells in this WDNET.



Rectal well differentiated neuroendocrine tumor (WDNET). This particular example was immunoreactive with prostatic acid phosphatase (PAP), a potential pitfall when rectal invasion from known prostatic carcinoma is a consideration.



Malignant Polyps- Background

- When carcinomas arise in adenomas of the colon, invasion of the lamina propria is considered biologically equivalent to high-grade dysplasia (since the lamina propria of the colon is believed to lack lymphatic access, “intramucosal carcinoma” in the colon is thus staged as Tis rather than T1) so some observers do not report this invasion either.
- We report intramucosal carcinoma in adenomas as such and always include a note stating that it is biologically equivalent to high-grade dysplasia (Tis) and that complete polypectomy should be adequate management.
- We report our findings this way in case additional sampling discloses deeper invasion.

Background

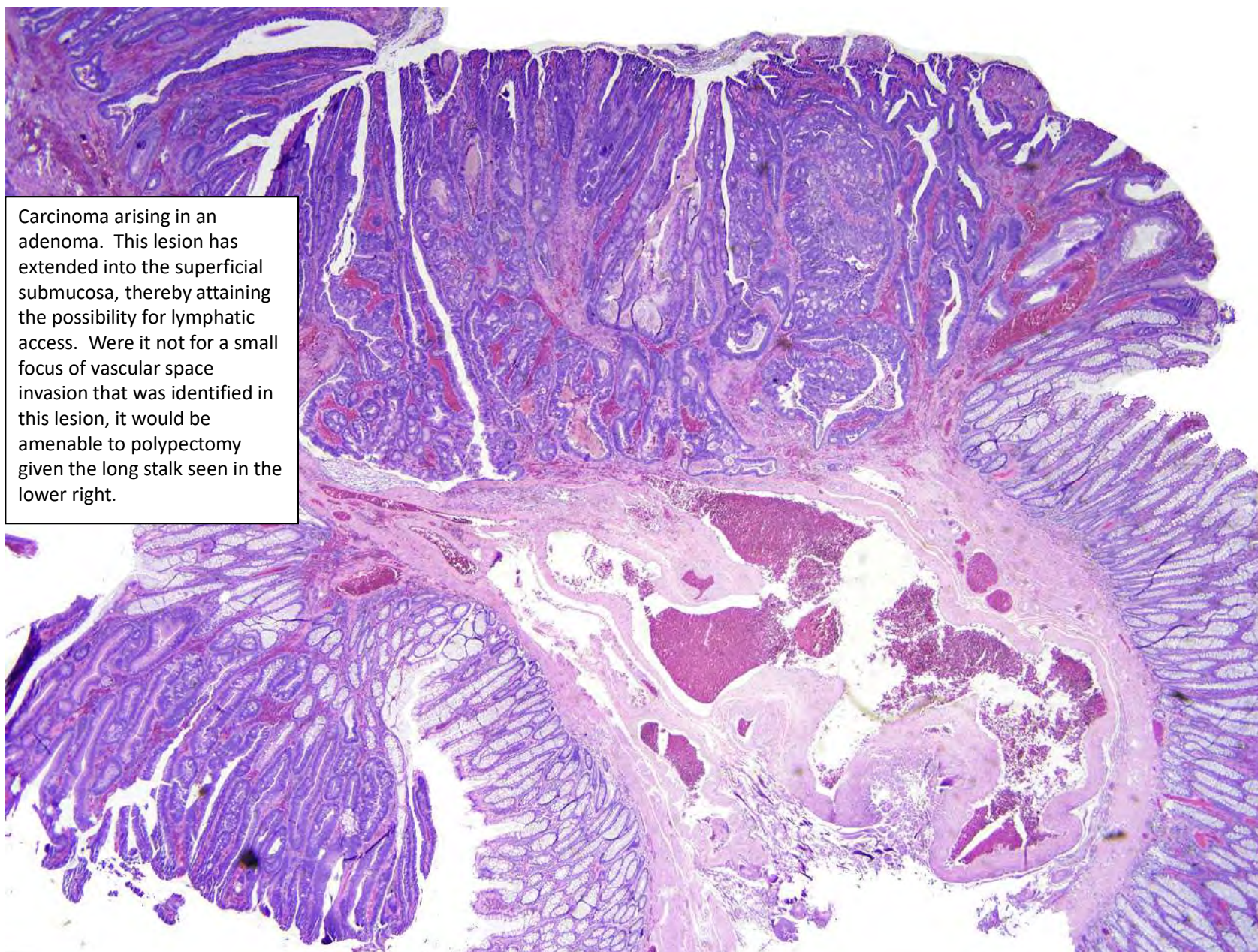
- Polyps containing invasive carcinoma comprise about 5% of all adenomas.
- The chance that any given adenoma contains invasive carcinoma increases with polyp size, and the incidence of invasive carcinoma in adenomas >2 cm ranges from 35% to 53%.

What most US colleagues report in a malignant polyp

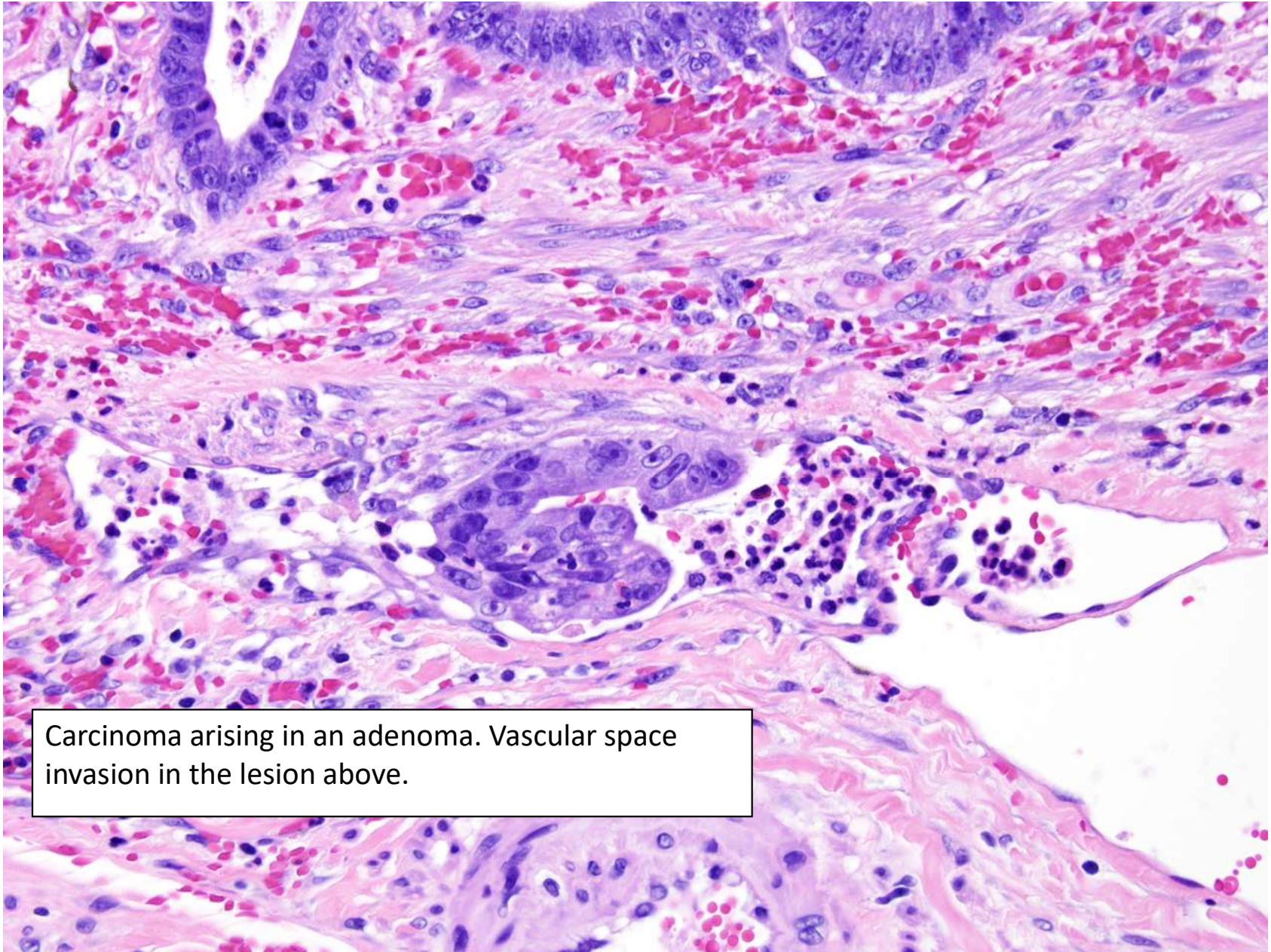
- Whether there is a poorly differentiated component
- Whether there is vascular space invasion
- Whether the polyp is out (usually we want to see a clearance of 2mm or more.)

In the less lazy parts of the world

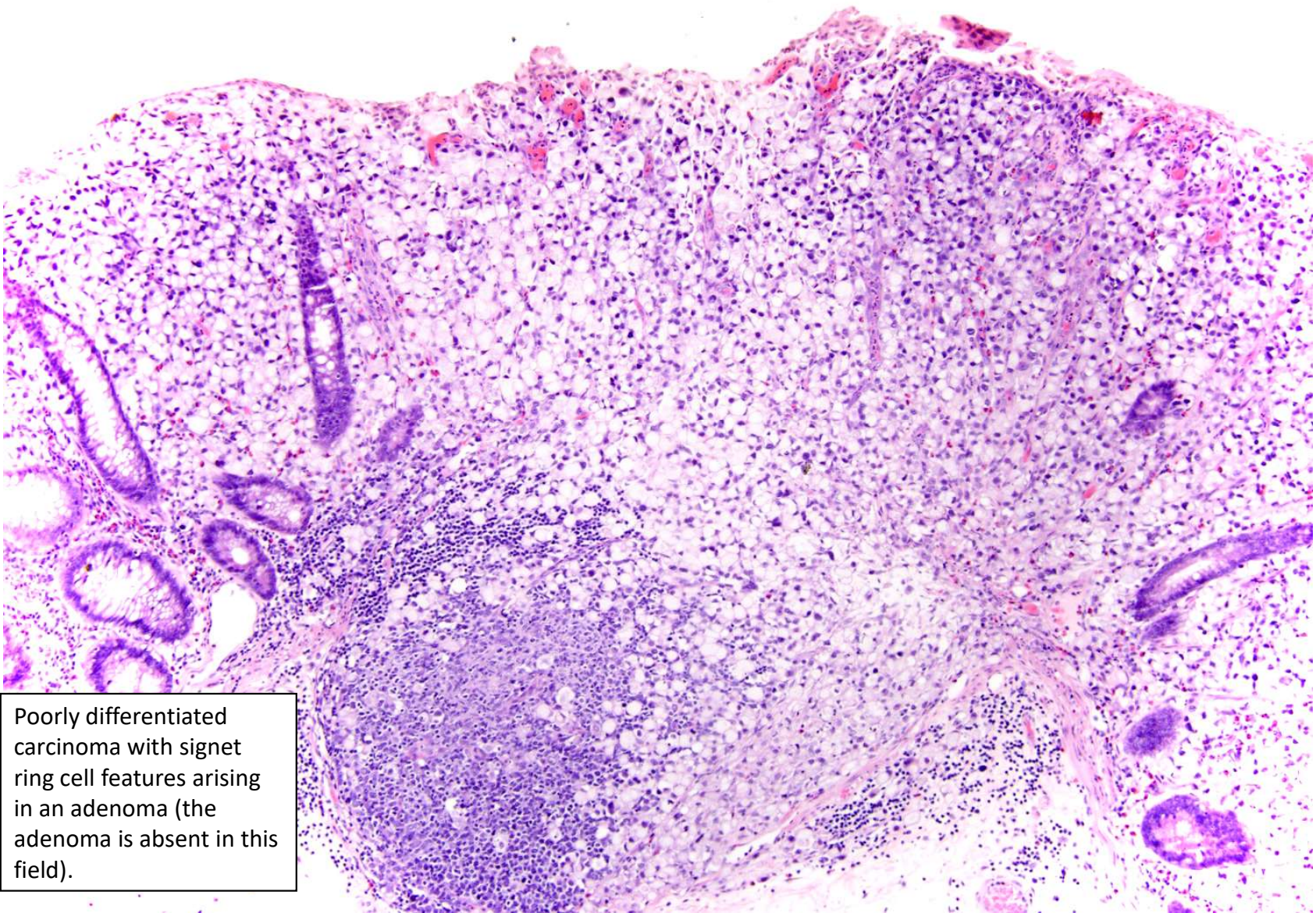
- Polyp configuration (as if the endoscopist did not know)
- Haggitt or Kikuchi level of invasion
- Depth and width of invasion
- Histologic grade
- Vascular invasion
- Tumor budding
- Status of excision margins (1 mm suggested as the “cutoff point”)



Carcinoma arising in an adenoma. This lesion has extended into the superficial submucosa, thereby attaining the possibility for lymphatic access. Were it not for a small focus of vascular space invasion that was identified in this lesion, it would be amenable to polypectomy given the long stalk seen in the lower right.



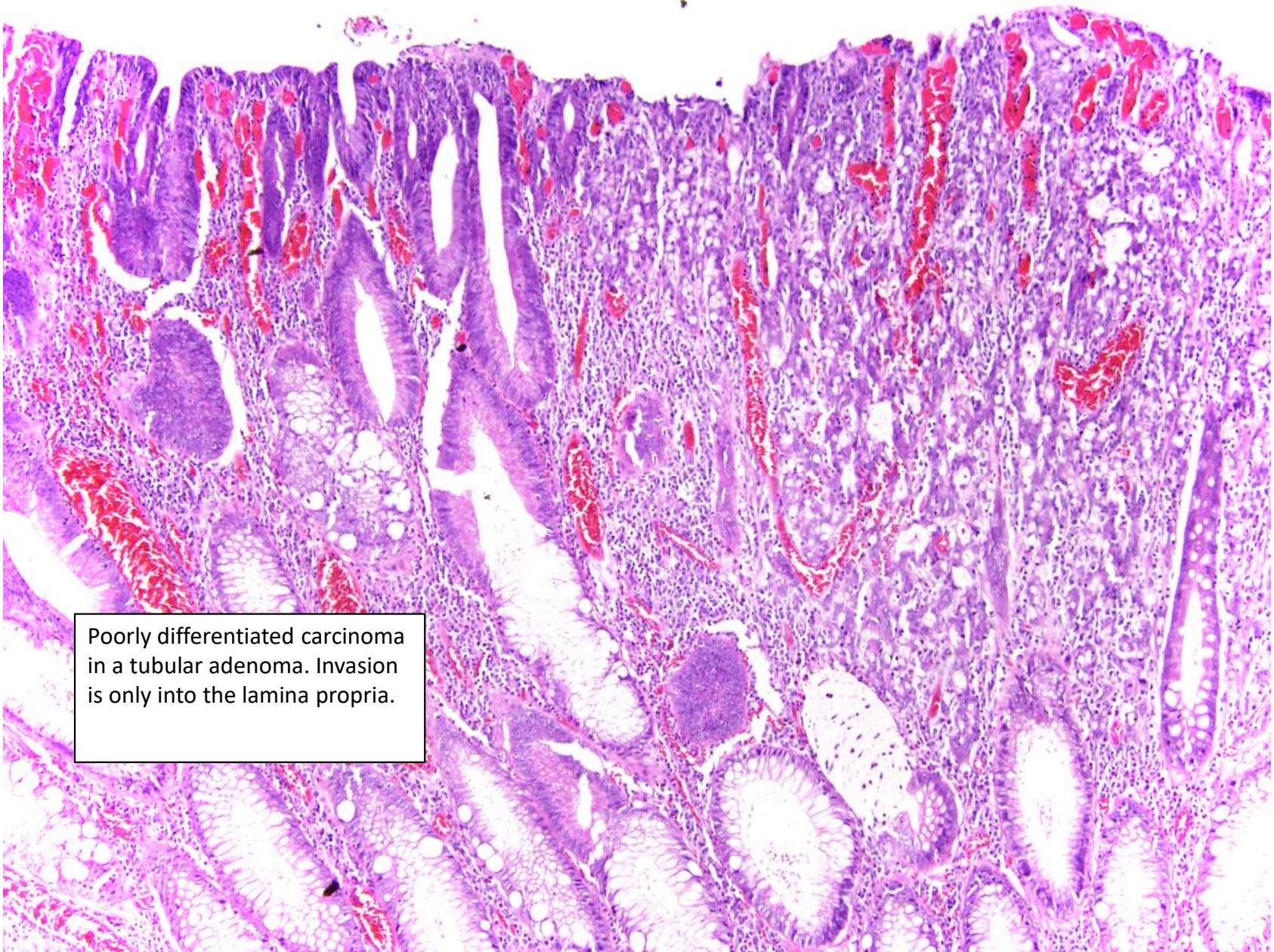
Carcinoma arising in an adenoma. Vascular space invasion in the lesion above.



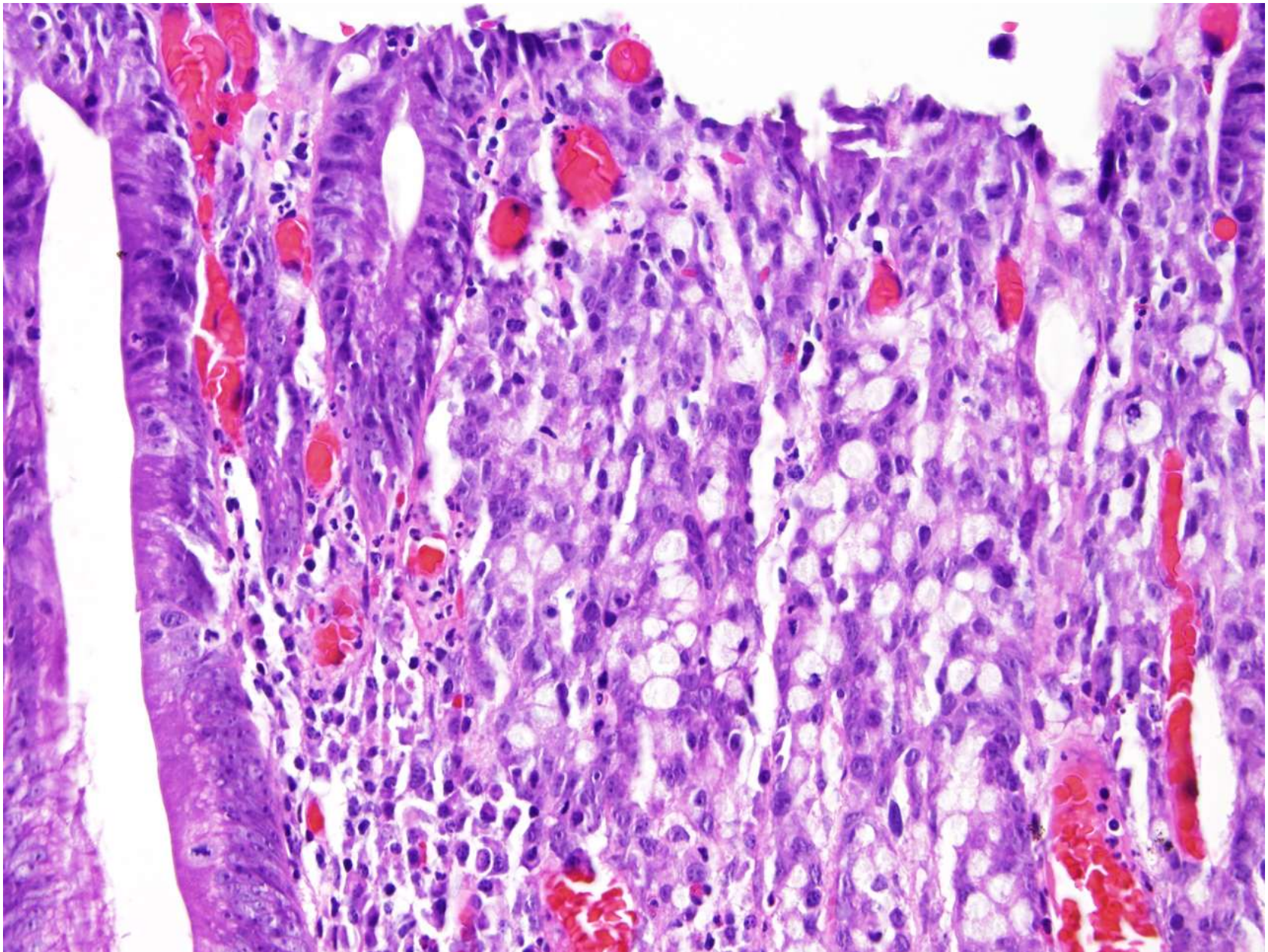
Poorly differentiated carcinoma with signet ring cell features arising in an adenoma (the adenoma is absent in this field).

Invasion into the lamina propria is always Tis?

- What about poorly differentiated carcinoma with invasion restricted to lamina propria
- Rarely encountered presumably because such lesions quickly invade into the submucosa



Poorly differentiated carcinoma
in a tubular adenoma. Invasion
is only into the lamina propria.



Can lamina propria invasion of poorly differentiated carcinoma be managed conservatively?

- Lewin MR, Fenton H, Burkart AL, Sheridan T, Abu-Alfa AK, Montgomery EA. Poorly differentiated colorectal carcinoma with invasion restricted to lamina propria (intramucosal carcinoma): a follow-up study of 15 cases. *Am J Surg Pathol*. Dec 2007;31(12):1882-1886.
- Shia J, Klimstra DS. Intramucosal poorly differentiated colorectal carcinoma: can it be managed conservatively? *Am J Surg Pathol*. Oct 2008;32(10):1586-1588; author reply 1588-1589.
- ANSWER – CASE BY CASE BASIS

Back to the basics of
malignant polyps

Substaging pT1



Level 1:
invasion of the
submucosa but
limited to the head
of the polyp



Level 2:
invasion extending
into the neck of
polyp



Level 3:
invasion into any
part of the stalk



Level 4:
invasion beyond the
stalk but above the
muscularis propria

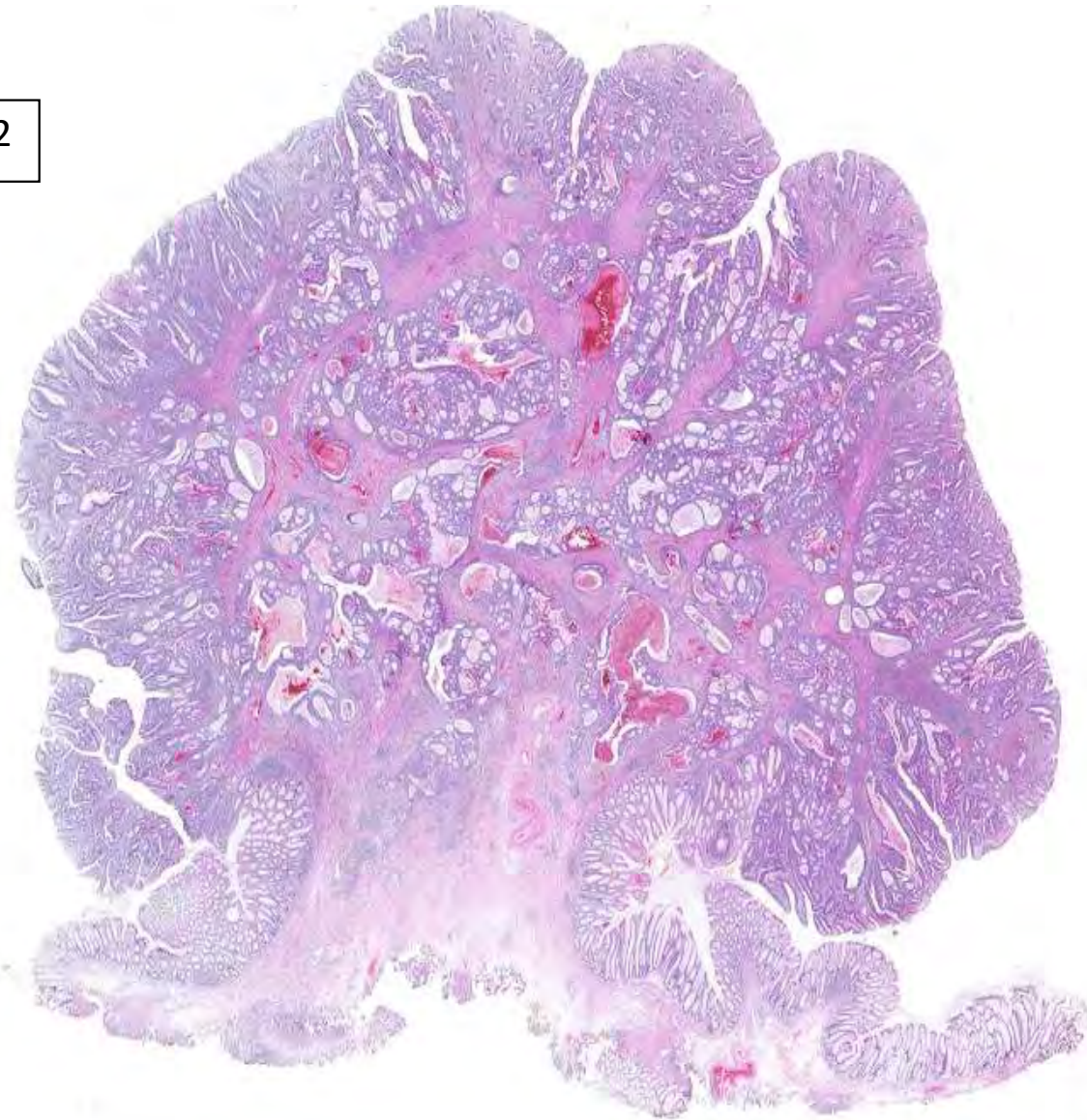
| Haggitt's Classification | Number of Cases | Nodal Involvement |
|--------------------------|-----------------|-------------------|
| Level 1/2 | 42 | 0 |
| Level 3 | 24 | 6 (25%) |
| Level 4 | 185 | 27 (15%) |

Haggitt substaging is recommended for pedunculated lesions (42-85%)!

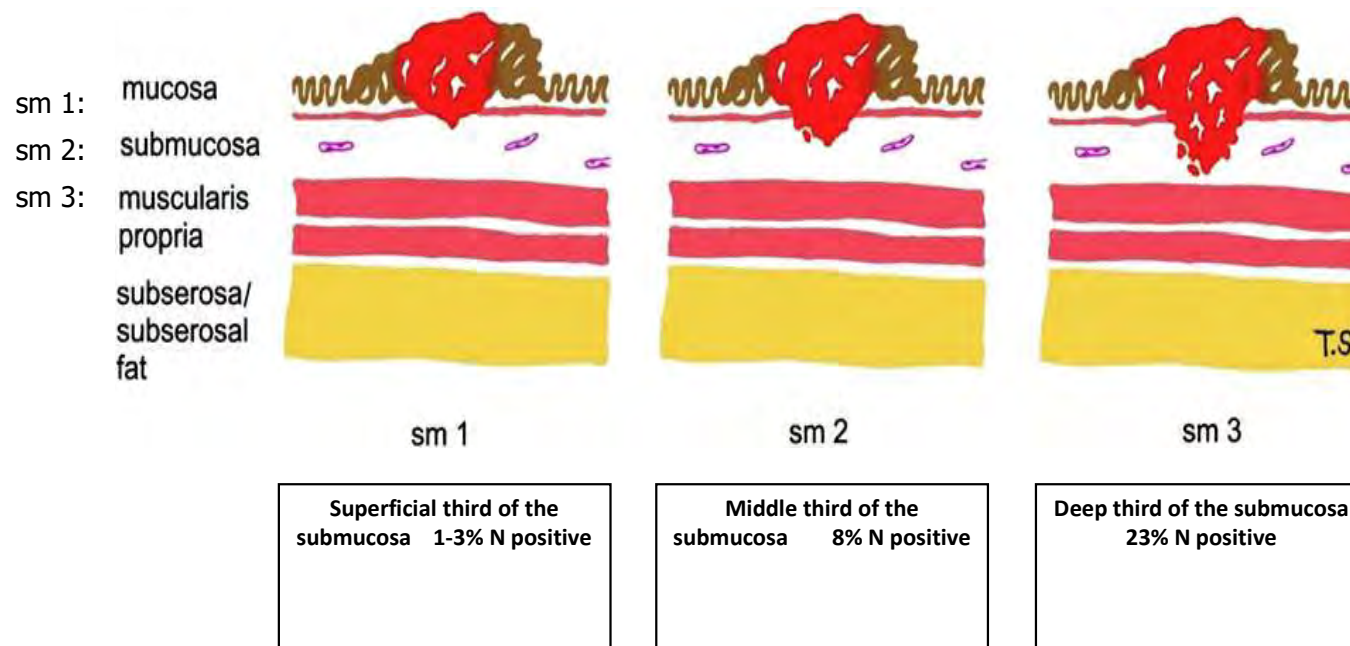
Haggitt 1



Haggitt 2



Substaging pT1



Kikuchi substaging is recommended for non-polypoid lesions (15-58%)! But you only know where the bottom is in a resection!!!!

Nascimbeni et al., Dis Colon Rectum 2002
Quirke & Vieth et al., Virchows Arch 2011

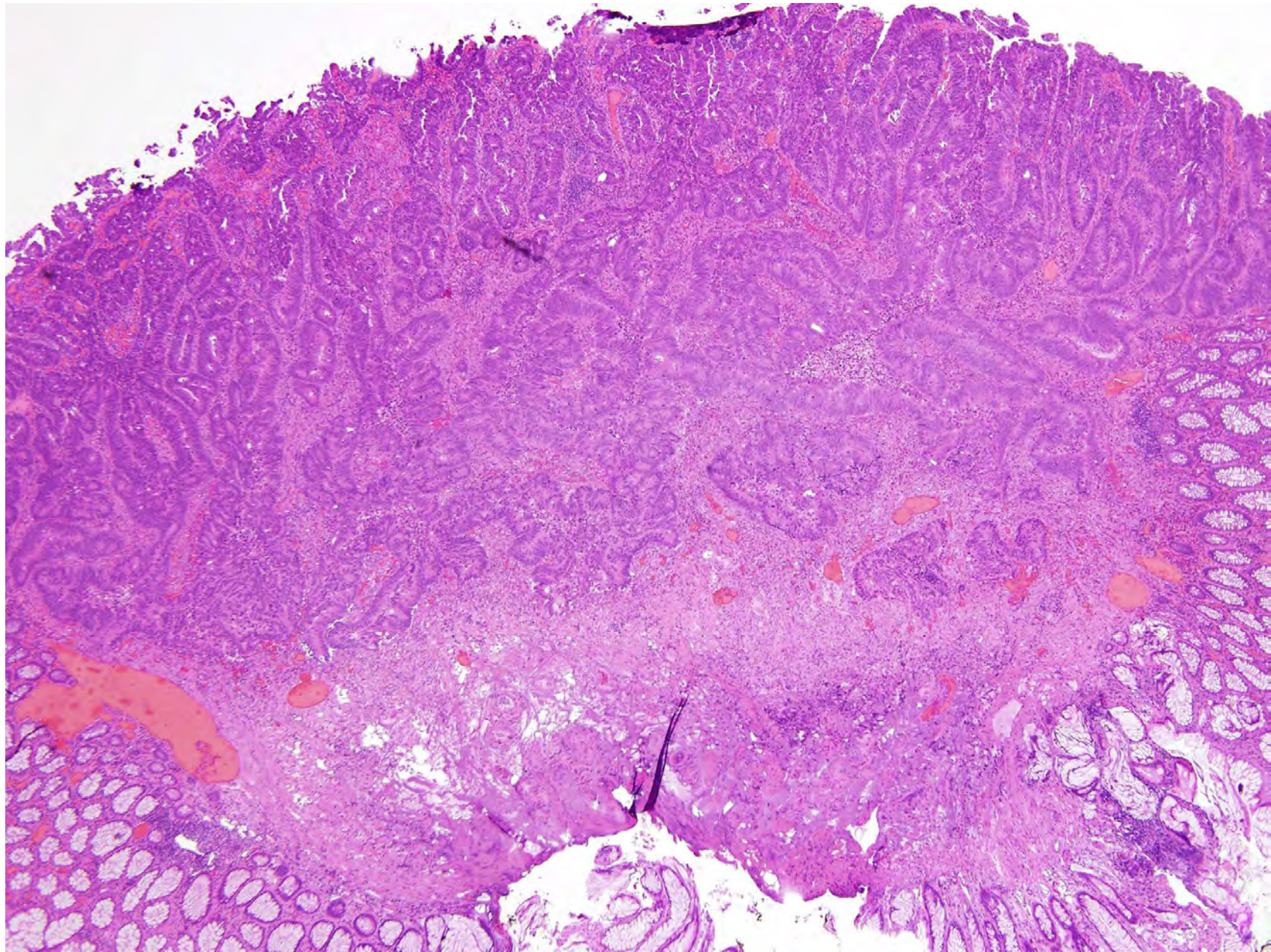
Relationship between the rate of lymph node metastasis and SM depth in early colorectal cancer

Fujimori et al. Digestion 79 (Suppl): 40-51, 2009

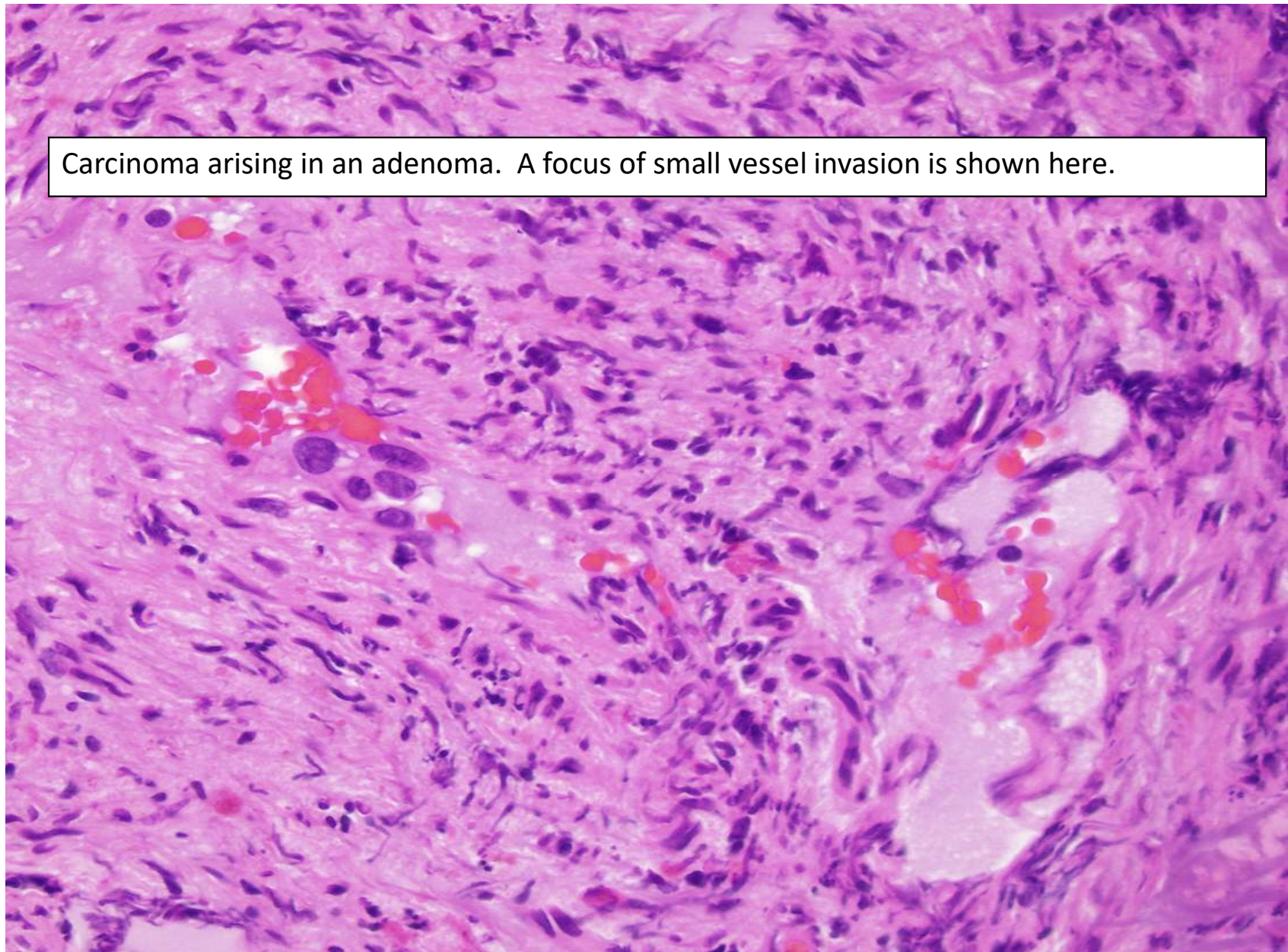
| Depth of Invasion into SM | Polypoid Lesions (Ip Type) | | Flat Lesions (Non-Ip Type) | |
|---------------------------|----------------------------|---------|----------------------------|----------|
| | N (-) | N (+) | N (-) | N (+) |
| Head Invasion | 50 | 3 (6%) | - | - |
| < 500 µm | 10 | 0 | 65 | 0 |
| 500-1000 µm | 7 | 0 | 58 | 0 |
| 1000-1500 µm | 10 | 1 (9%) | 46 | 6 (12%) |
| 1500-2000 µm | 6 | 1 (14%) | 72 | 10 (12%) |
| 2000-2500 µm | 9 | 1 (10%) | 71 | 13 (15%) |
| 2500-3000 µm | 4 | 0 | 63 | 8 (11%) |
| 3000-3500 µm | 7 | 2 (22%) | 67 | 5 (7%) |
| < 3500 µm | 28 | 2 (7%) | 205 | 35 (15%) |
| Total | 131 | 10 (7%) | 647 | 77 (11%) |

Important especially for mucosal resections and submucosal dissections

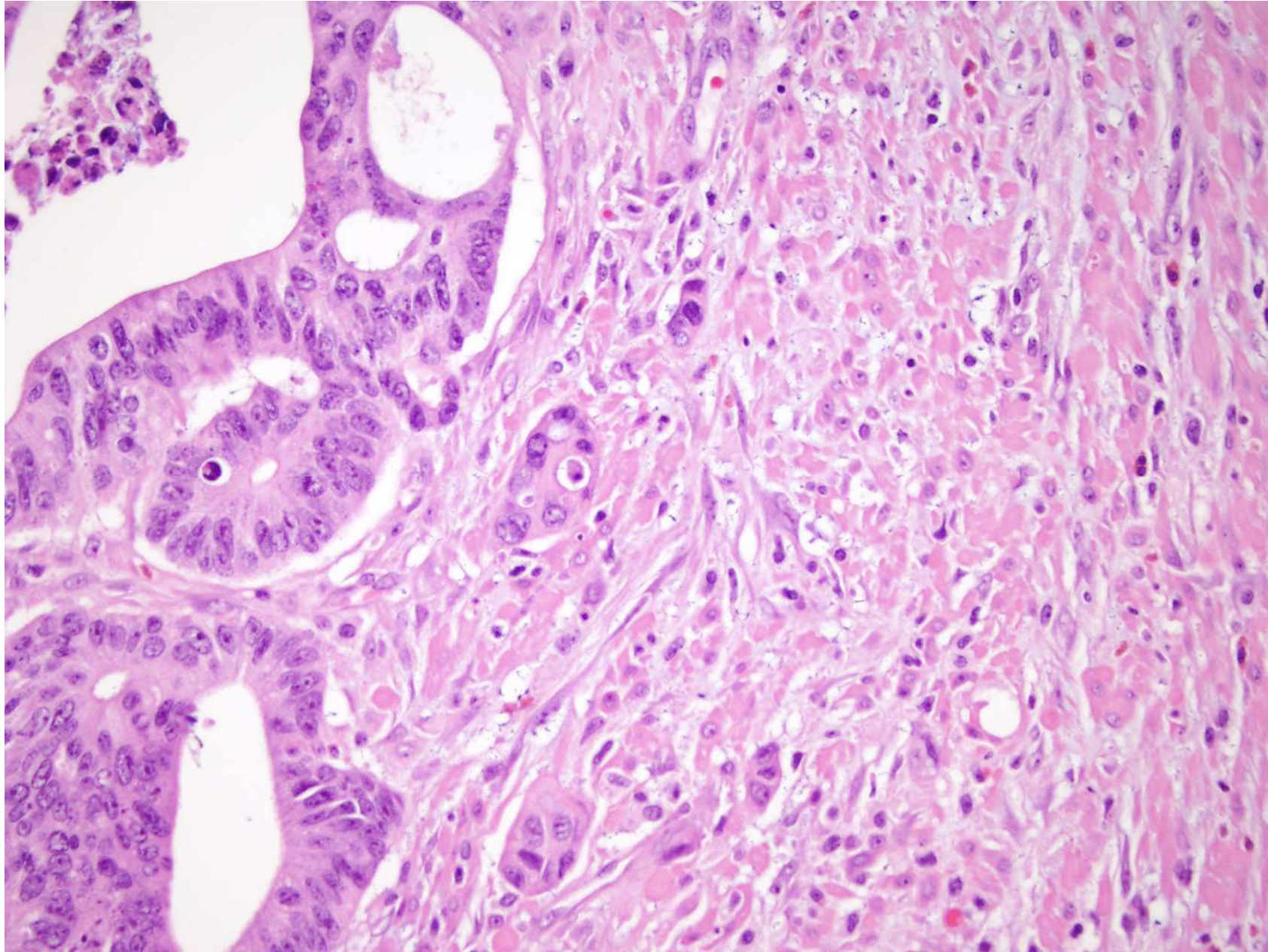
Issue when measuring
depth –
The lesion obscures the
muscularis mucosae



Carcinoma arising in an adenoma. A focus of small vessel invasion is shown here.



Tumor budding can be defined as the presence of isolated tumor cells, singly or in clusters of <5 cells at the advancing tumor front.



Budding Pains

Lugli A, Kirsch R, Ajioka Y, Bosman F, Cathomas G, Dawson H, El Zimaity H, Fléjou JF, Hansen TP, Hartmann A, Kakar S, Langner C, Nagtegaal I, Pappa G, Riddell R, Ristimäki A, Sheahan K, Smyrk T, Sugihara K, Terris B, Ueno H, Vieth M, Zlobec I, Quirke P. Recommendations for reporting tumor budding in colorectal cancer based on the International Tumor Budding Consensus Conference (ITBCC) 2016. Mod Pathol. 2017 Sep;30(9):1299-1311. PubMed PMID: 28548122.

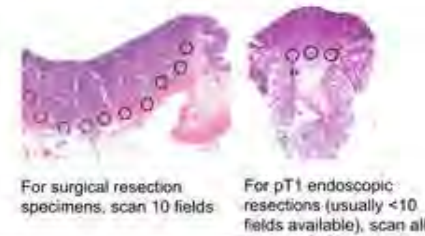
- 1 Define the field (specimen) area for the 20x objective lens of your microscope based on the eyepiece field number (FN) diameter

| Objective magnification: 20 | | |
|-----------------------------|----------------------------------|---------------------|
| Eyepiece FN (Diameter mm) | Specimen Area (mm ²) | Microscopical Field |
| 18 | 0.638 | 0.510 |
| 18 | 0.709 | 0.505 |
| 20 | 0.780 | 1.000 |
| 21 | 0.886 | 1.325 |
| 22 | 0.950 | 1.210 |
| 23 | 1.028 | 1.333 |
| 24 | 1.131 | 1.440 |
| 26 | 1.227 | 1.562 |
| 28 | 1.327 | 1.680 |

- 2 Select the H&E slide with greatest degree of budding at the invasive front



- 3 Scan 10 individual fields at medium power (10x objective) to identify the "hotspot" at the invasive front



- 4 Count tumor buds in the selected "hotspot" (20x objective)



- 5 Divide the bud count by the normalization factor (figure 2) to determine the tumor bud count per 0.785mm²

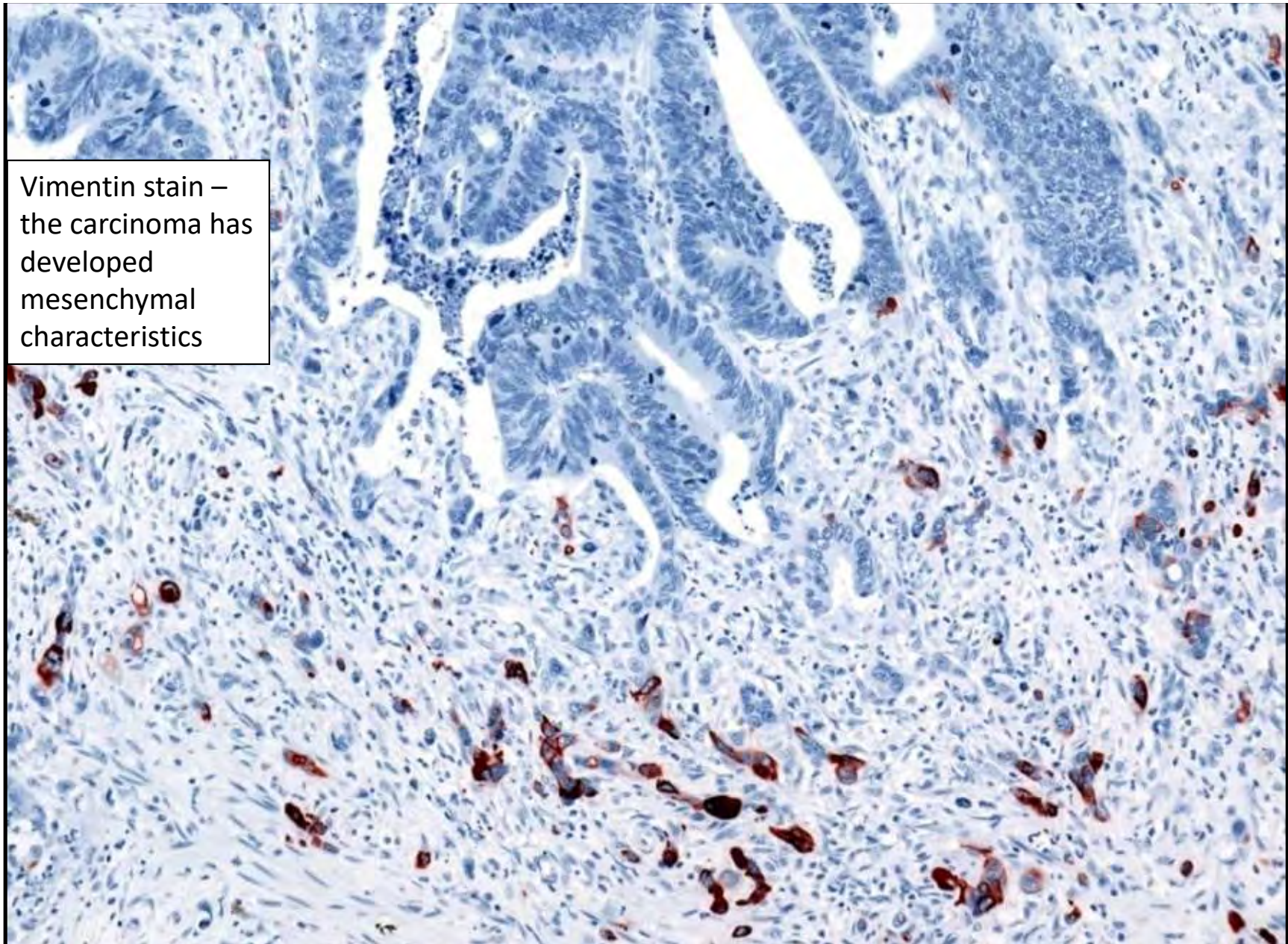
Select the budding [Bd] category based on bud count and indicate the absolute count per 0.785mm² (see reporting example)

$$\text{Tumor bud count per 0.785 mm}^2 = \frac{\text{Bud count (20x objective)}}{\text{Normalization factor}^*}$$

| | | |
|----------------------------|----------|---------------------------|
| Bd1 (low): | 0-4 buds | per 0.785 mm ² |
| Bd2 (intermediate): | 5-9 buds | |
| Bd3 (high): | ≥10 buds | |

Reporting example:
Tumor budding: Bd3 (high), count 14 (per 0.785 mm²)

Vimentin stain –
the carcinoma has
developed
mesenchymal
characteristics



Do we need to stain for endothelial markers to search for vascular invasion?

- The vintage Cooper studies noted that patients whose lesions were even “suspicious for vascular invasion” tended to behave as though vascular invasion.
- We do not always stain but there is nothing wrong with this practice.

What we do at our place

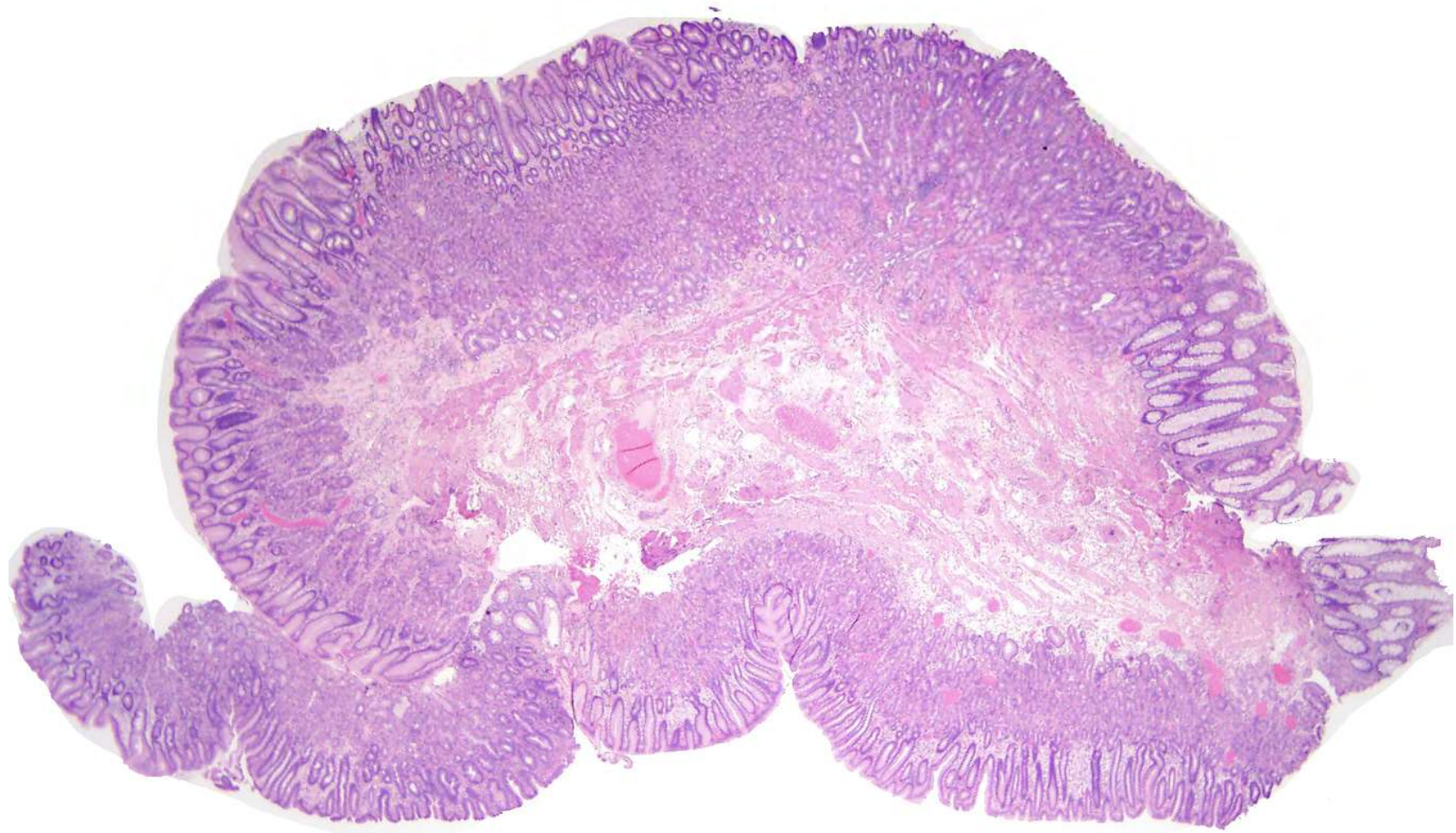
- The old fashioned 3 things (is there vascular invasion, is there a poorly differentiated component, is the lesion out and a measurement is made).
- Budding reported either as such or as a poorly differentiated component
- Occasional staining for keratins or endothelial cells
- Measure depth from the muscularis mucosae in endoscopic submucosal dissections

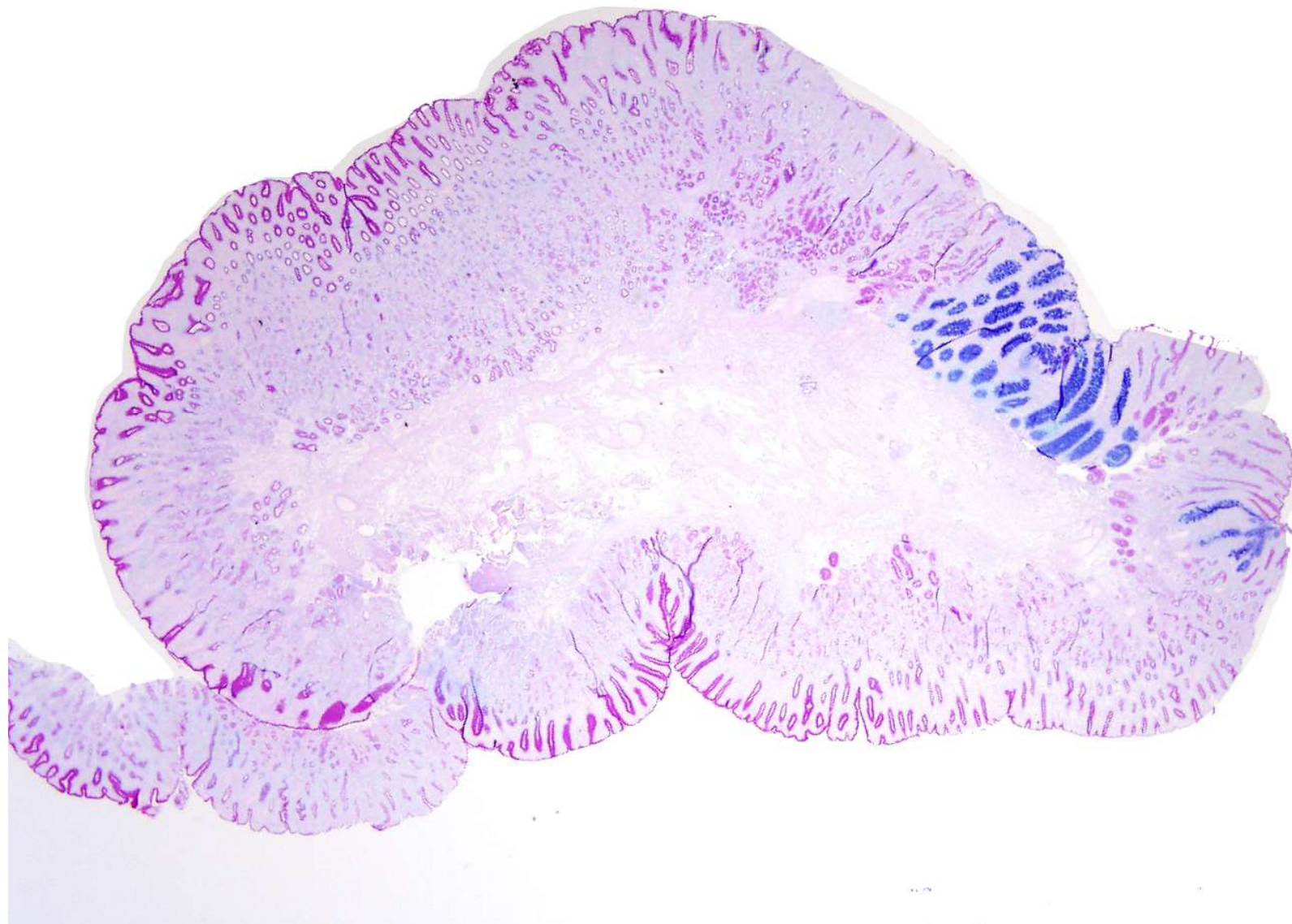
Peculiar NON-hereditary lesions

- Cronkhite Canada syndrome
- Mucosal prolapse
- Cap polyposis
- Polyps associated with portal hypertension

Bleeding per rectum and a
rectal polyp

Mannan AASR, Vieth M, Khararjian A, et al. The outlet patch: gastric heterotopia of the colorectum and anus. *Histopathology*. 2018;73(2):220-229.





General Features of Cronkhite-Canada Syndrome

- Acquired, nonfamilial form of diffuse gastrointestinal polyposis
- Other common features include:
 - Skin pigmentation
 - Dystrophic changes of fingernails
 - Alopecia
 - Diarrhea
 - Malnutrition
 - Nonspecific impairment of immune system

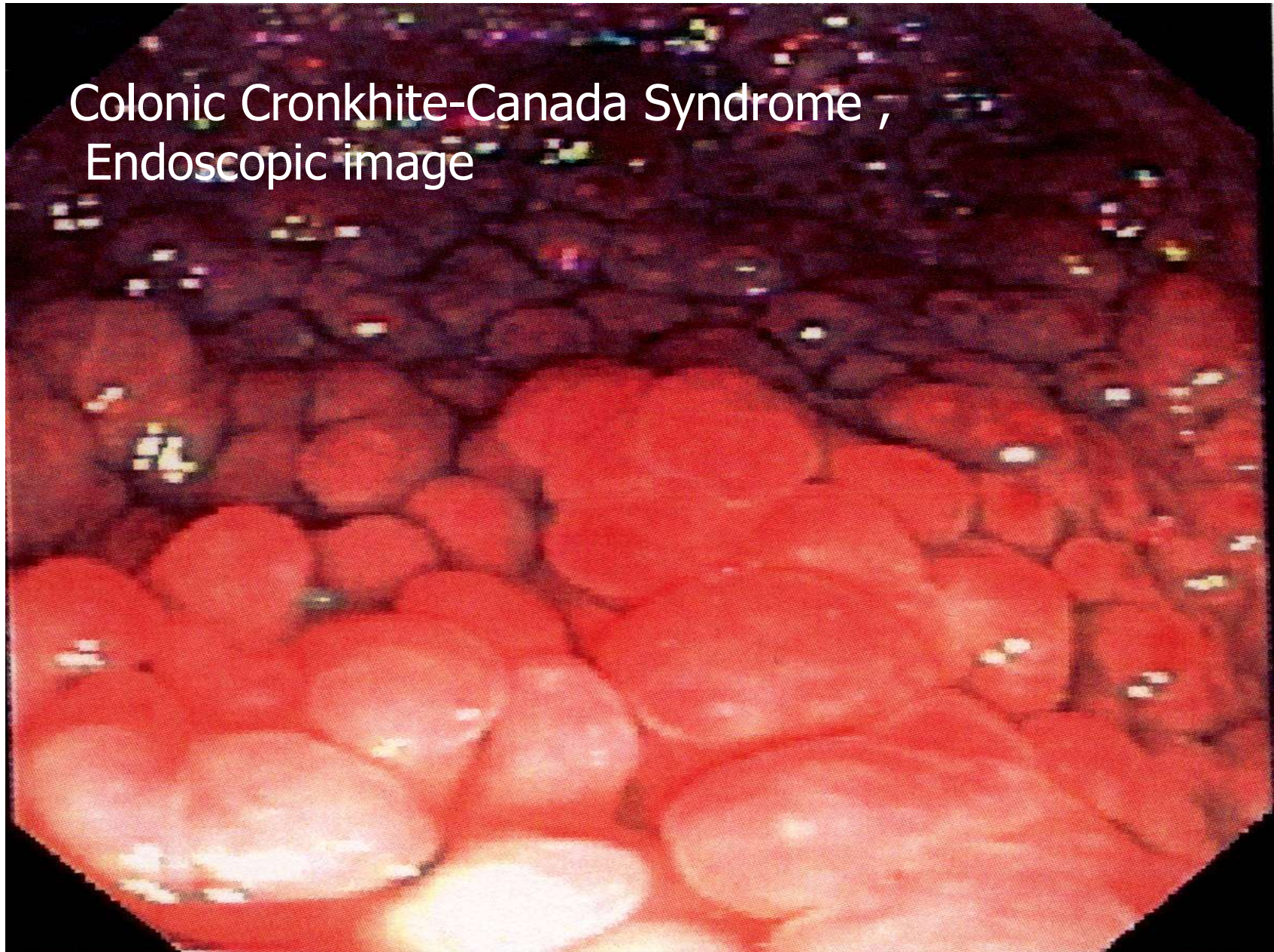
Clinical Features of Cronkhite-Canada Syndrome

- Average age of onset 62 years
- Present with acute and rapidly progressive illness of diarrhea, protein-losing enteropathy, weight loss and skin abnormalities
- Lab findings include hypoalbuminemia, hypocalcemia, anemia and severe electrolyte deficiencies
- In the past - Poor prognosis due to severity of malabsorption (mortality rate 60%)
- **Recent improved supportive care allows most patients to survive**

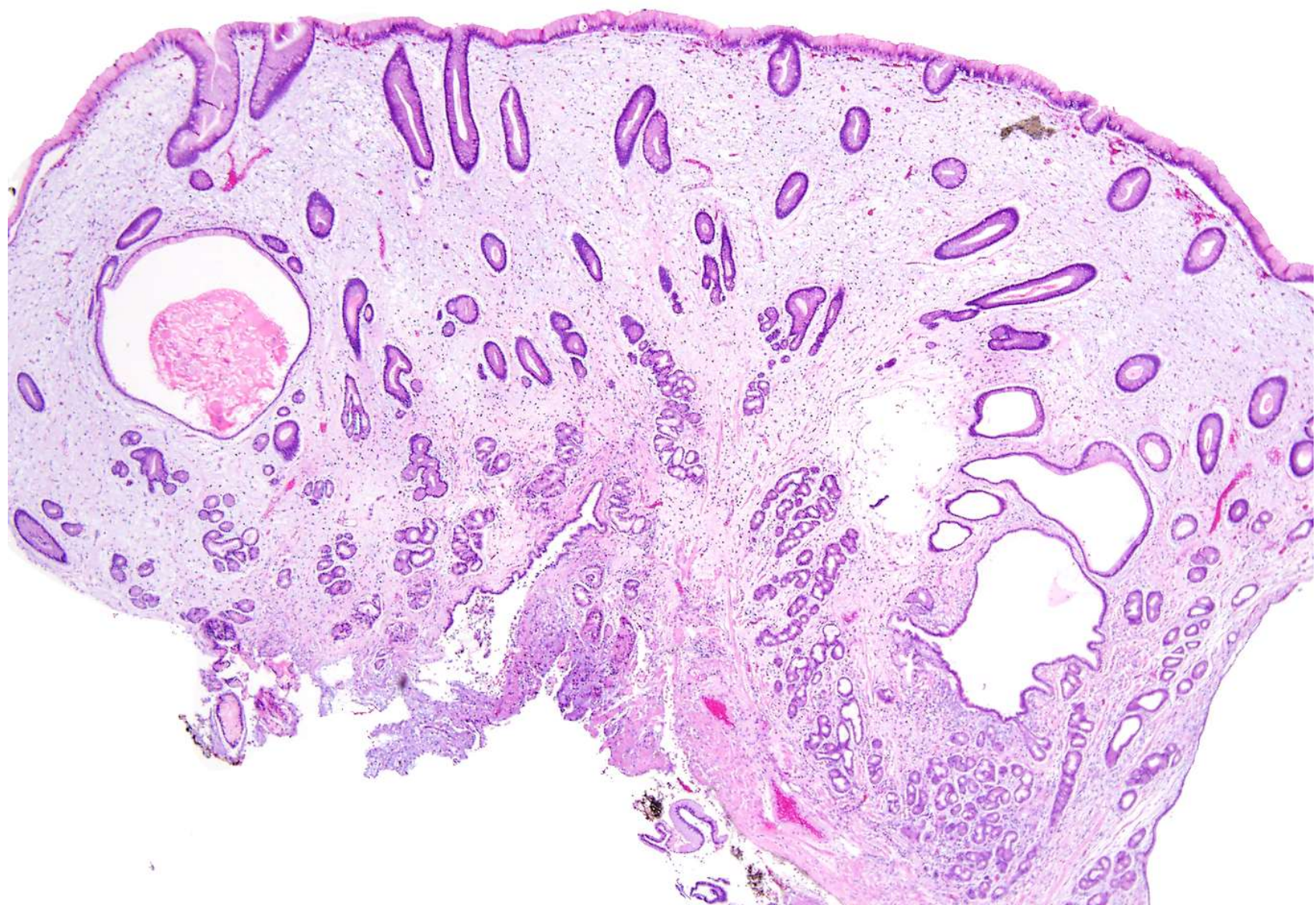
Pathologic Features of Cronkhite-Canada Syndrome

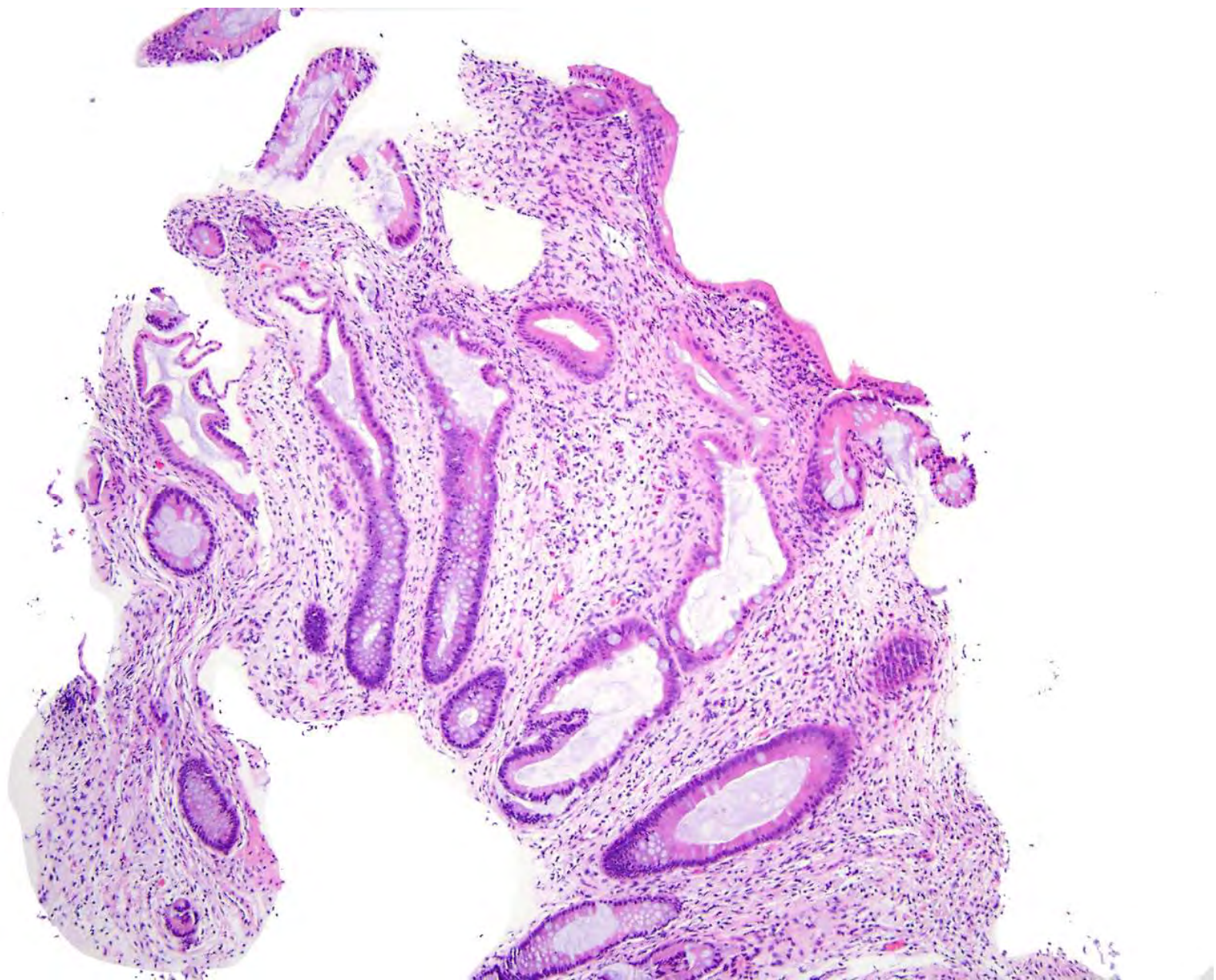
- Gastrointestinal polyps found in almost all patients
- Polyps typically located anywhere from stomach to rectum
- Histologically similar to juvenile (retention) polyps, but not pedunculated as in JPS
- Differences from Juvenile polyposis:
 - Intervening mucosa is also abnormal
 - Edema, congestion and inflammation

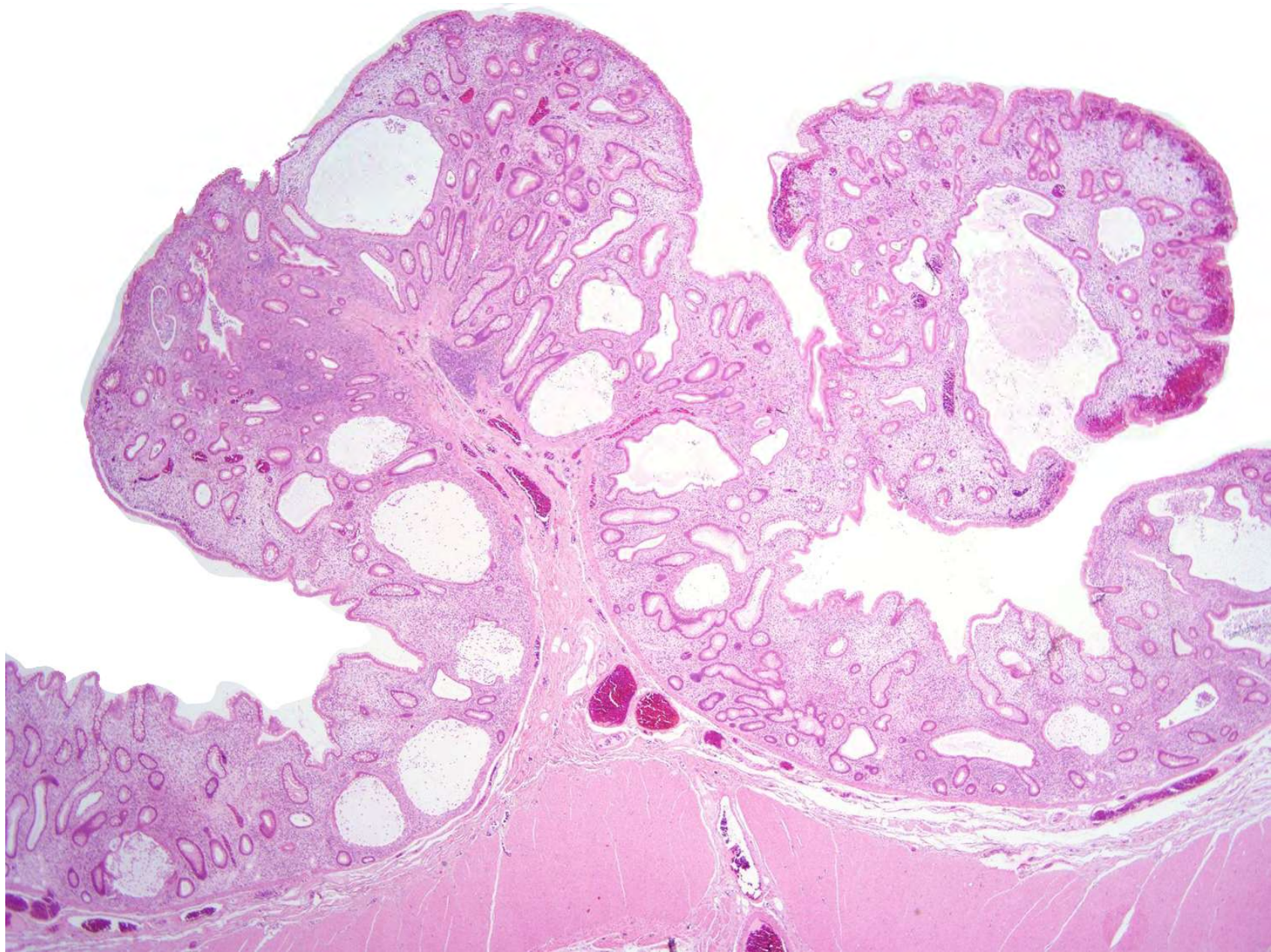
Colonic Cronkhite-Canada Syndrome ,
Endoscopic image





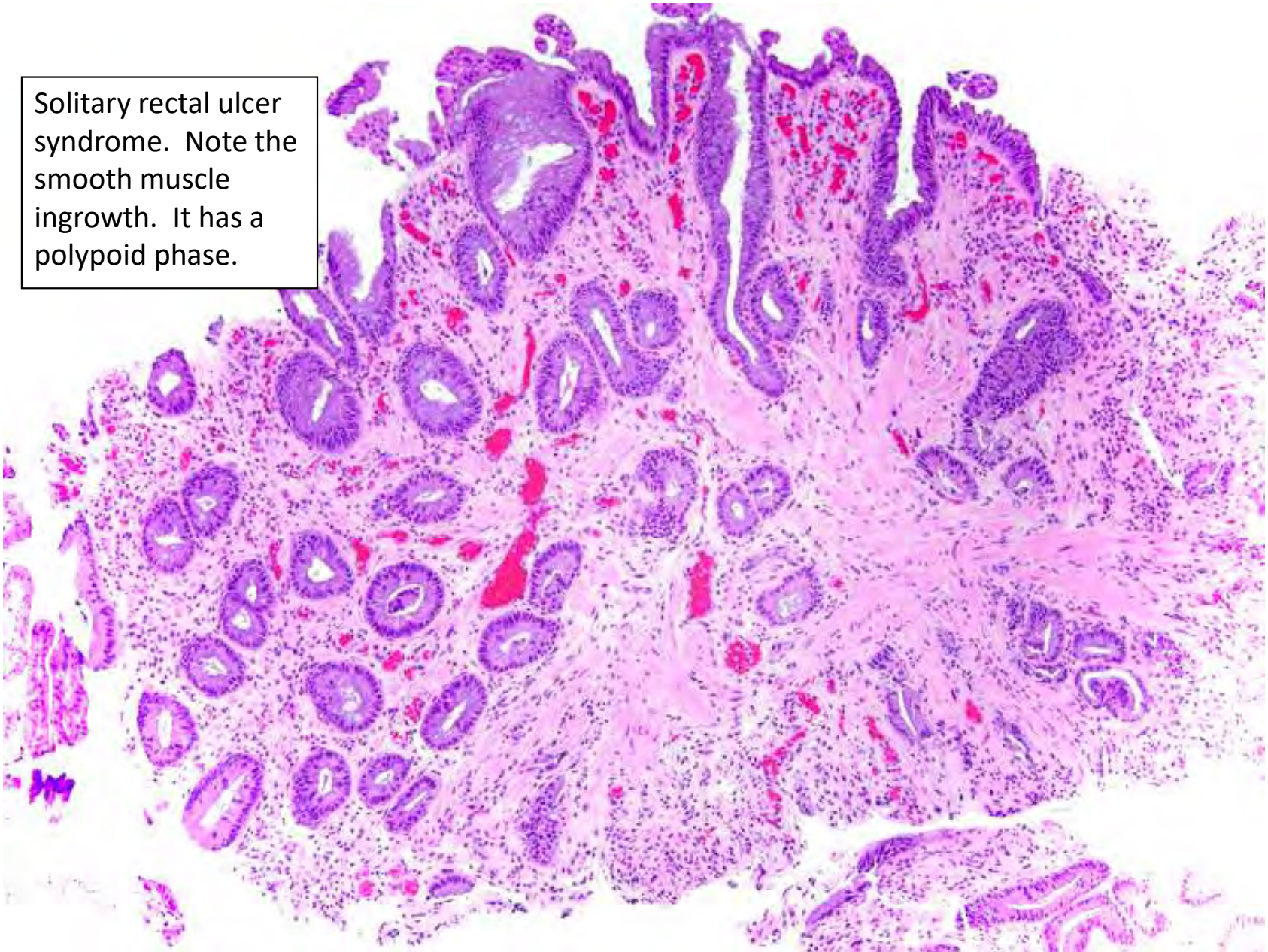


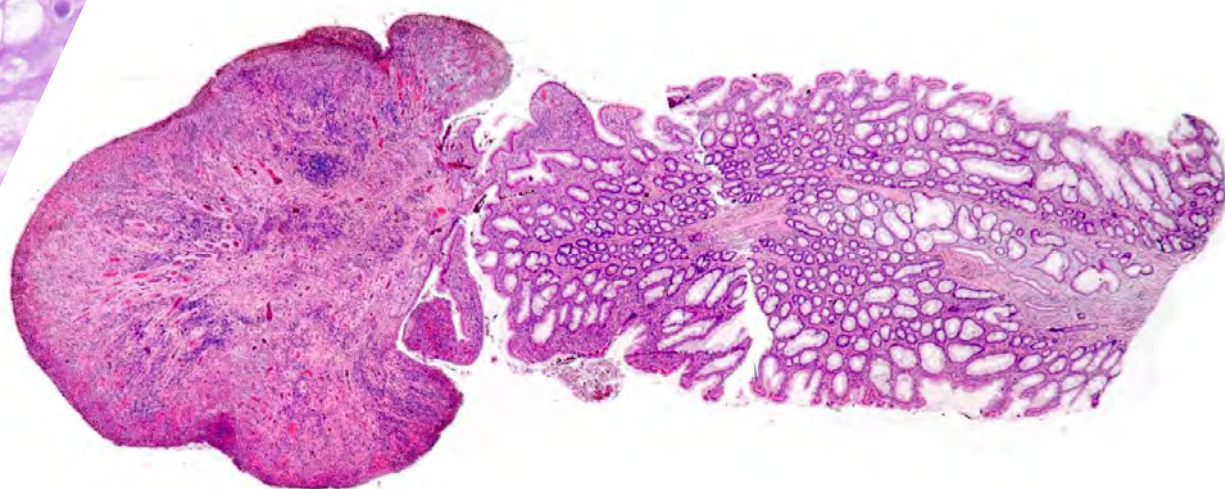
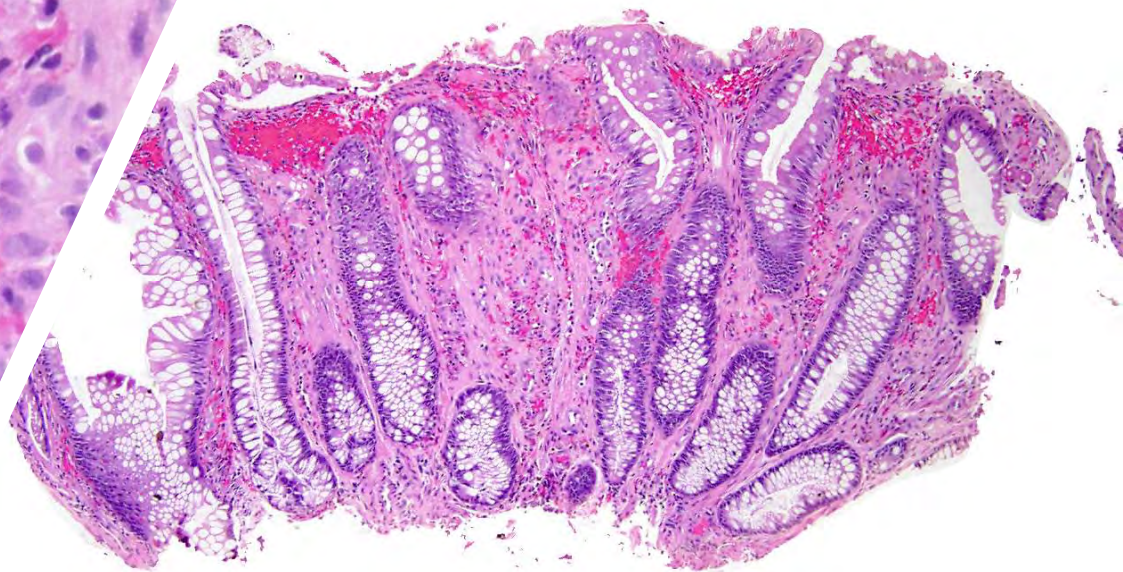
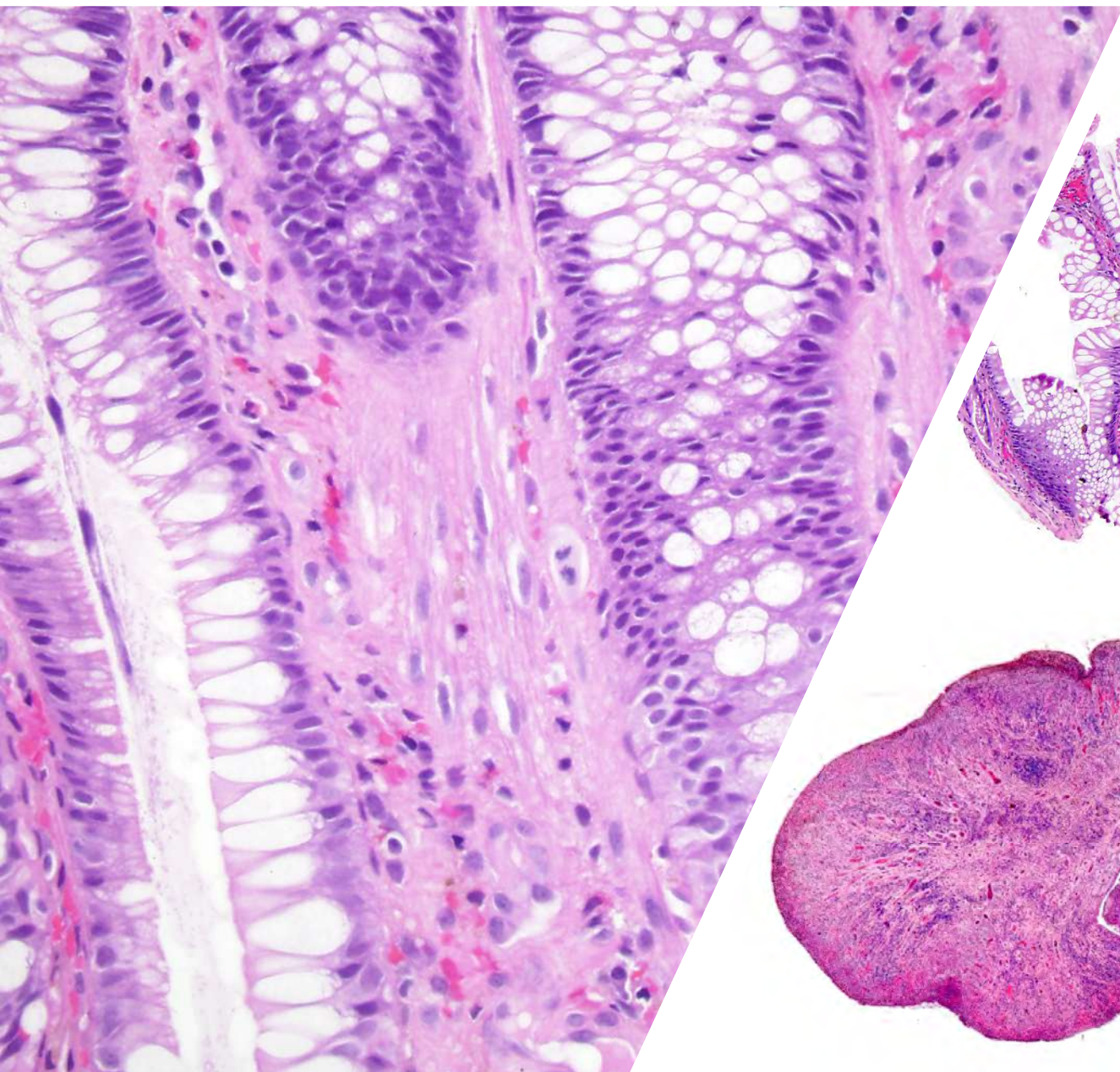




Mucosal prolapse polyps

Solitary rectal ulcer syndrome. Note the smooth muscle ingrowth. It has a polypoid phase.

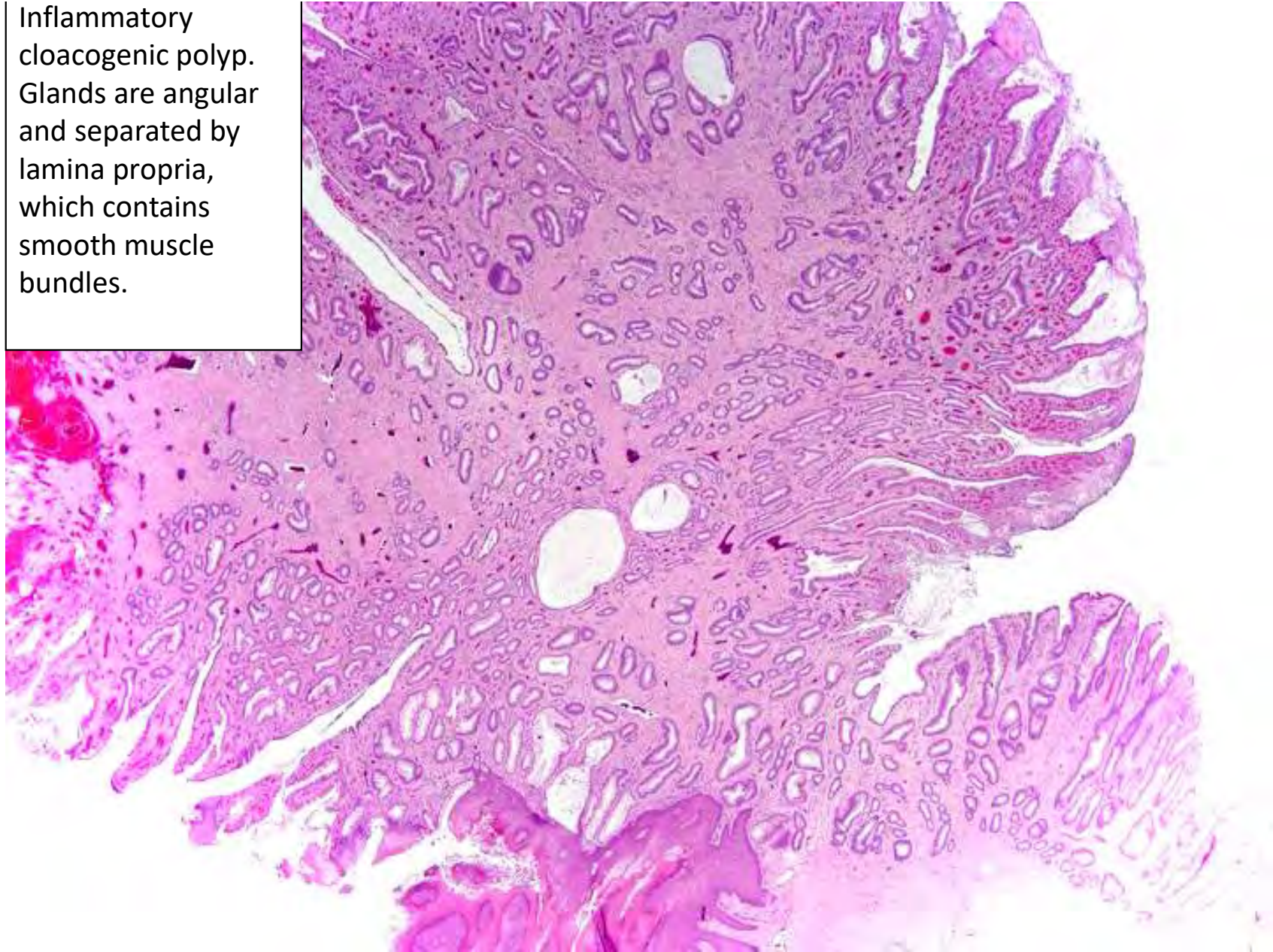


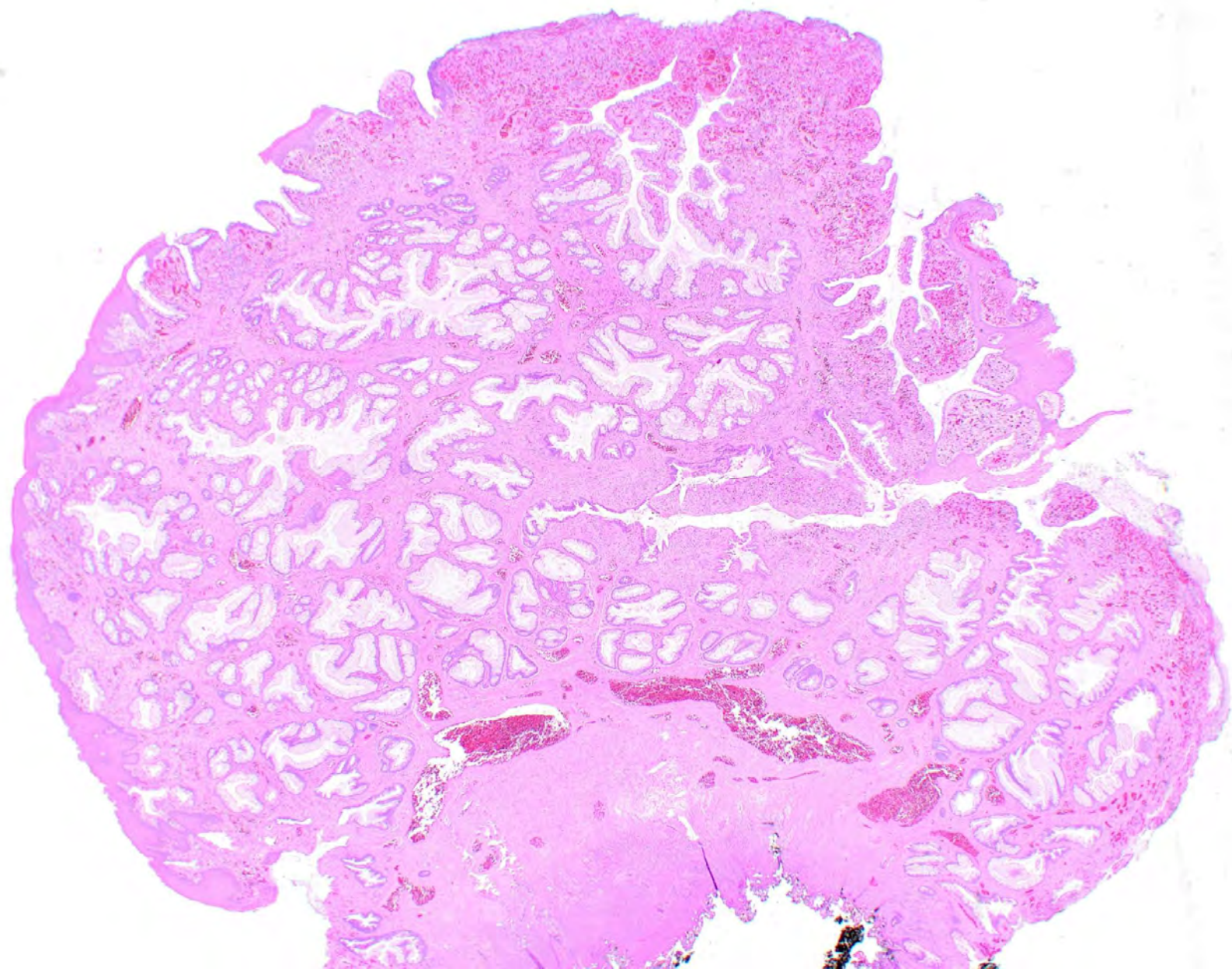


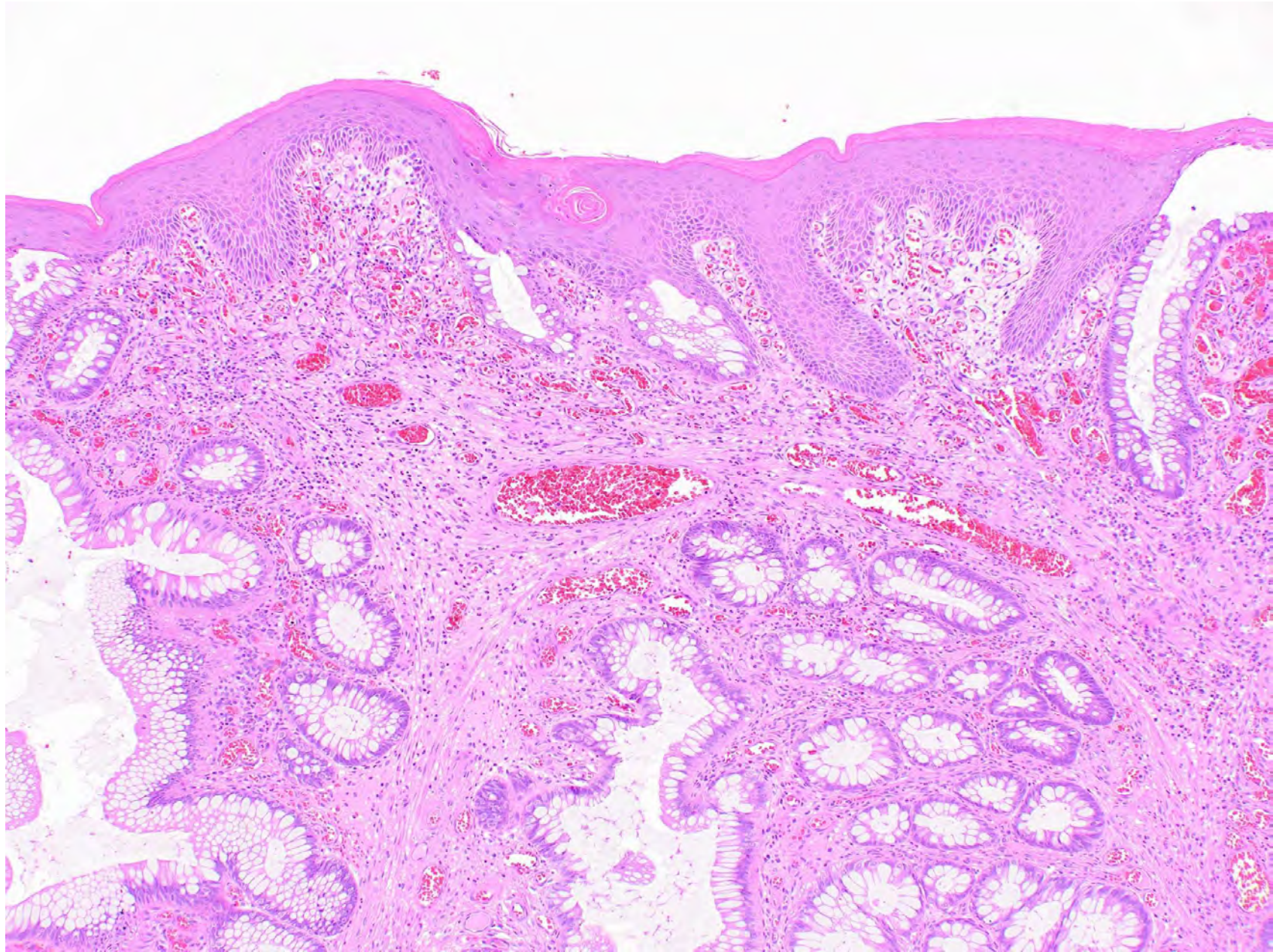
Ano-rectal prolapse

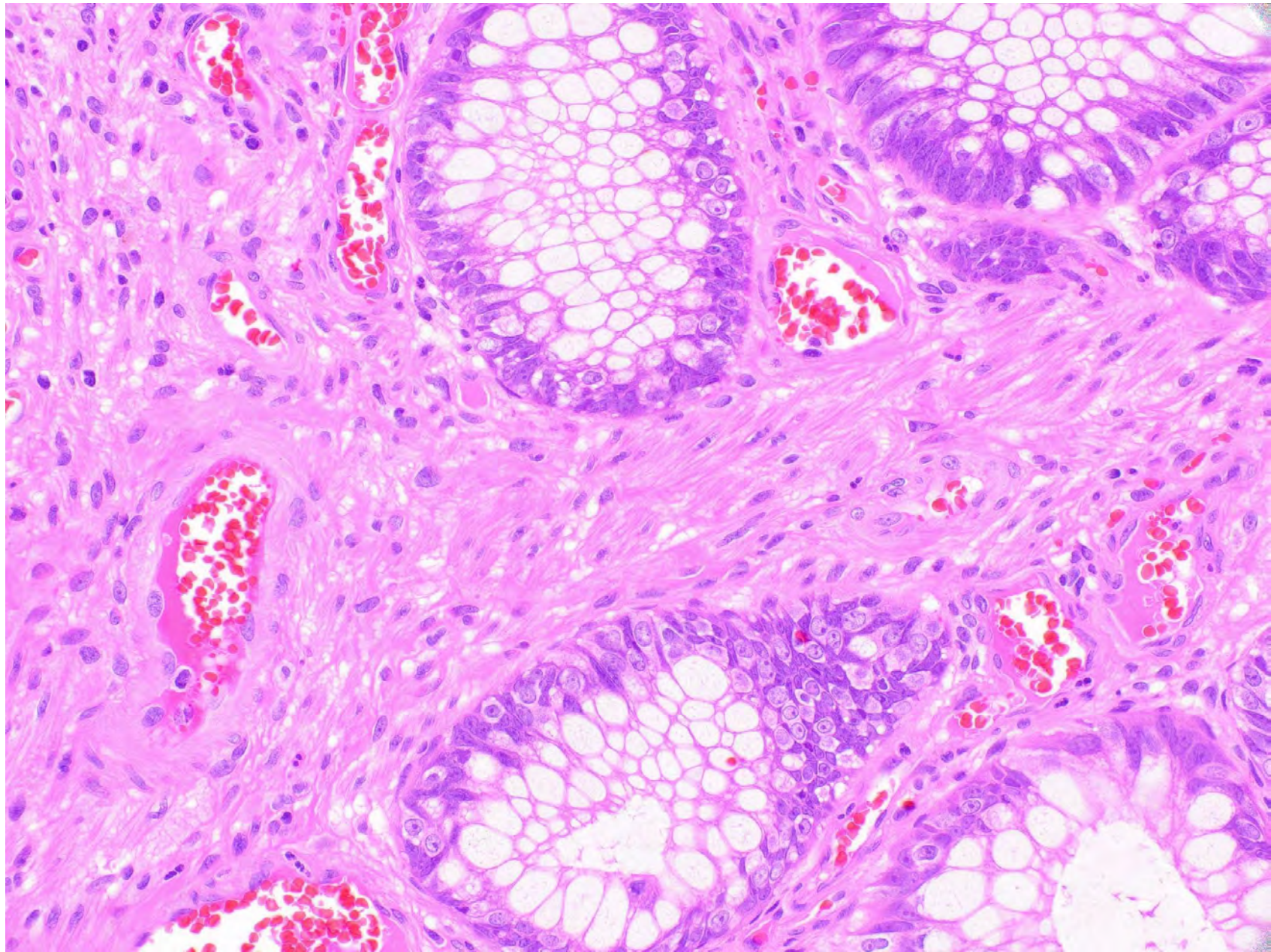
- Termed “inflammatory cloacogenic polyp years ago
- Ref; Lobert PF, Appelman HD. Inflammatory cloacogenic polyp. A unique inflammatory lesion of the anal transitional zone. *Am J Surg Pathol*. 1981;5(8):761-766.

Inflammatory
cloacogenic polyp.
Glands are angular
and separated by
lamina propria,
which contains
smooth muscle
bundles.



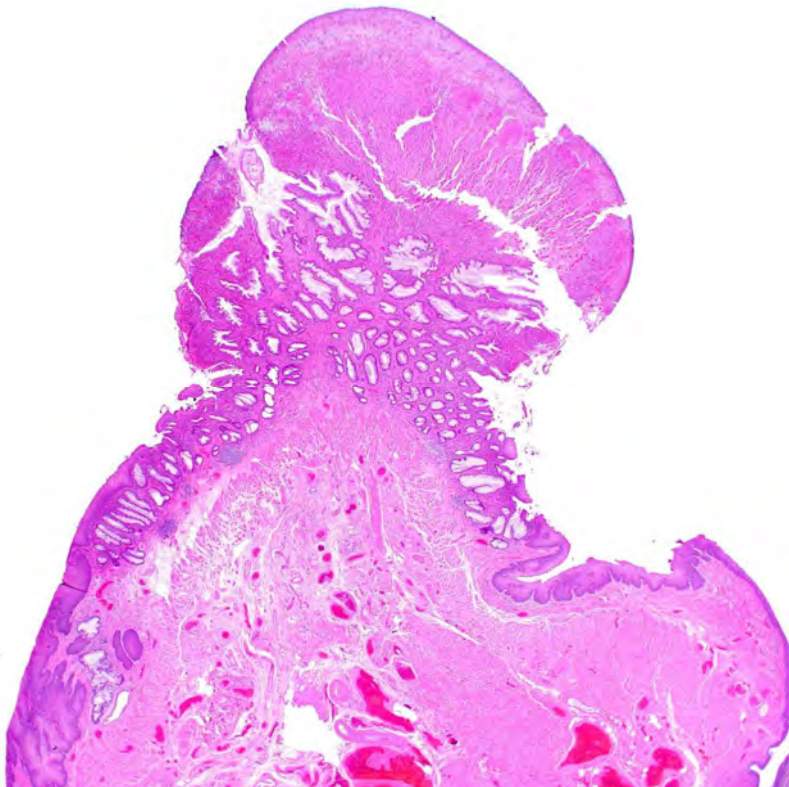




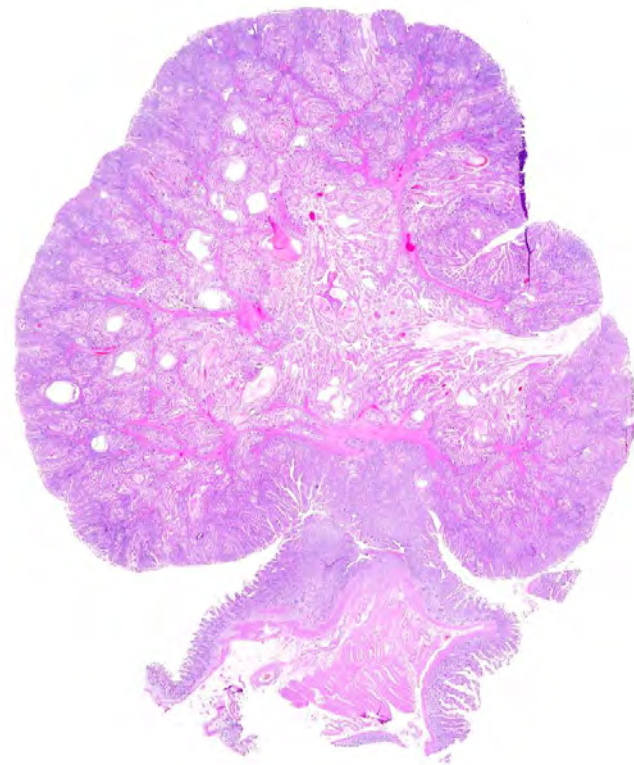


Comparing Mucosal Prolapse Polyps and Peutz Jeghers Polyp

Prolapse

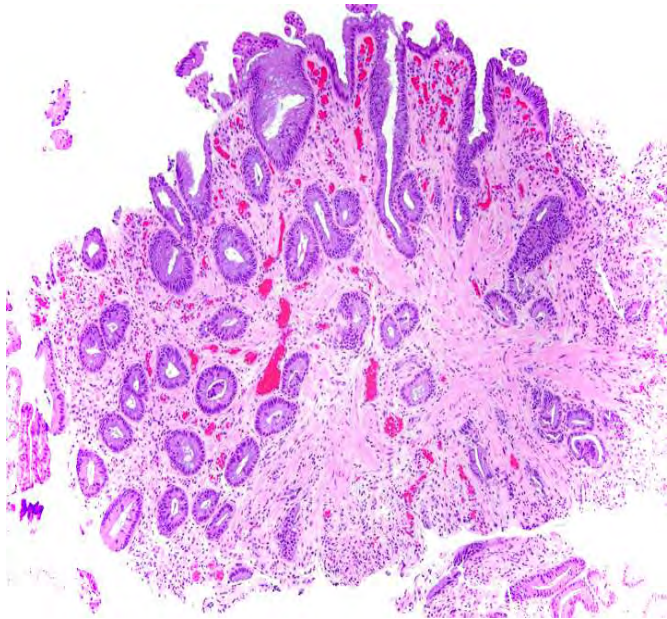


PJ

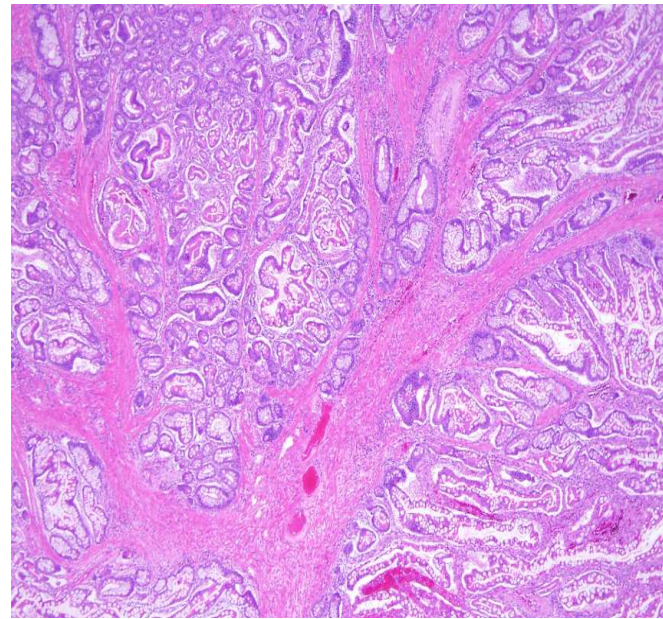


Comparing Solitary Rectal Ulcer and Peutz Jeghers Polyp

Prolapse



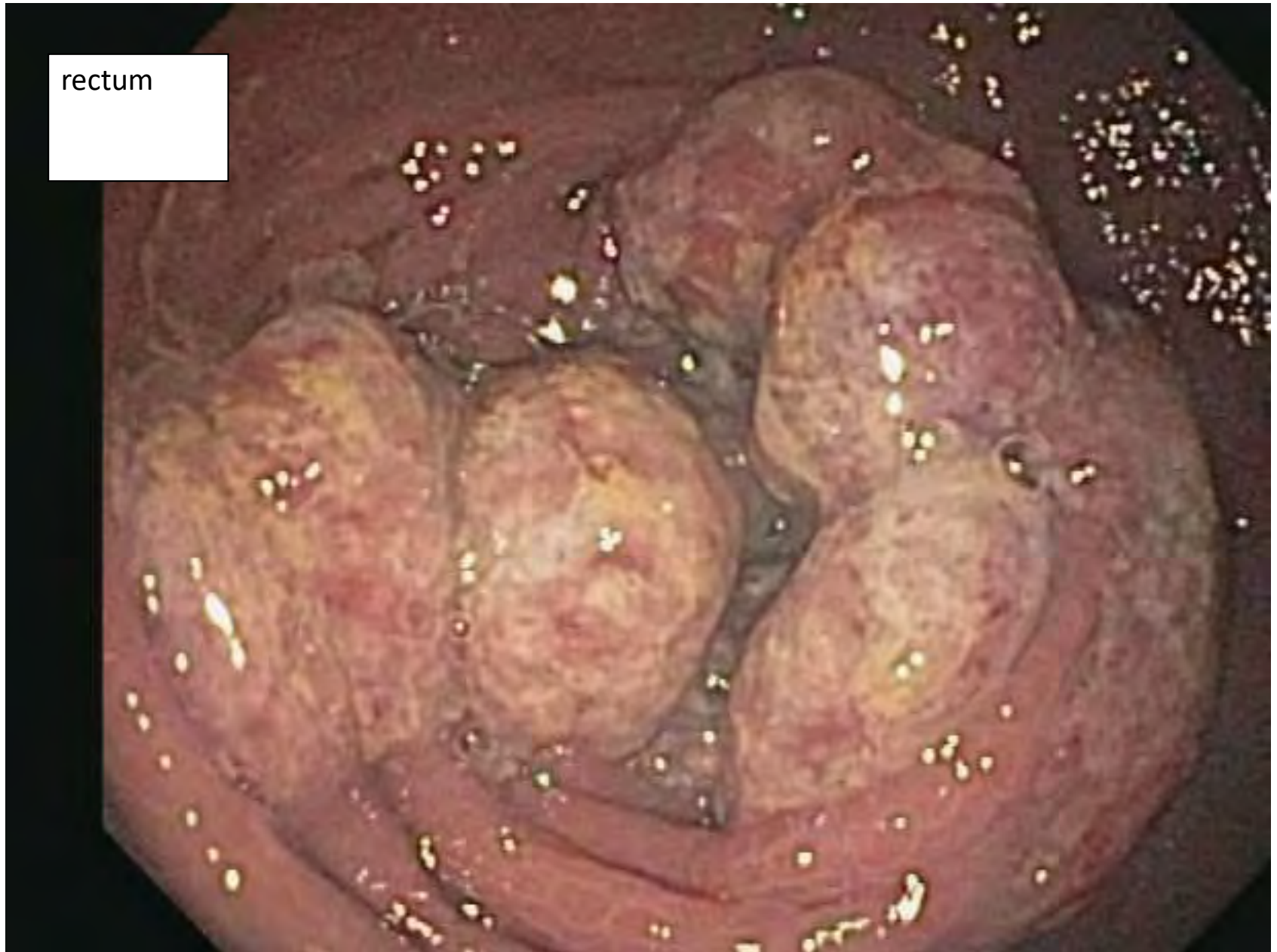
PJ

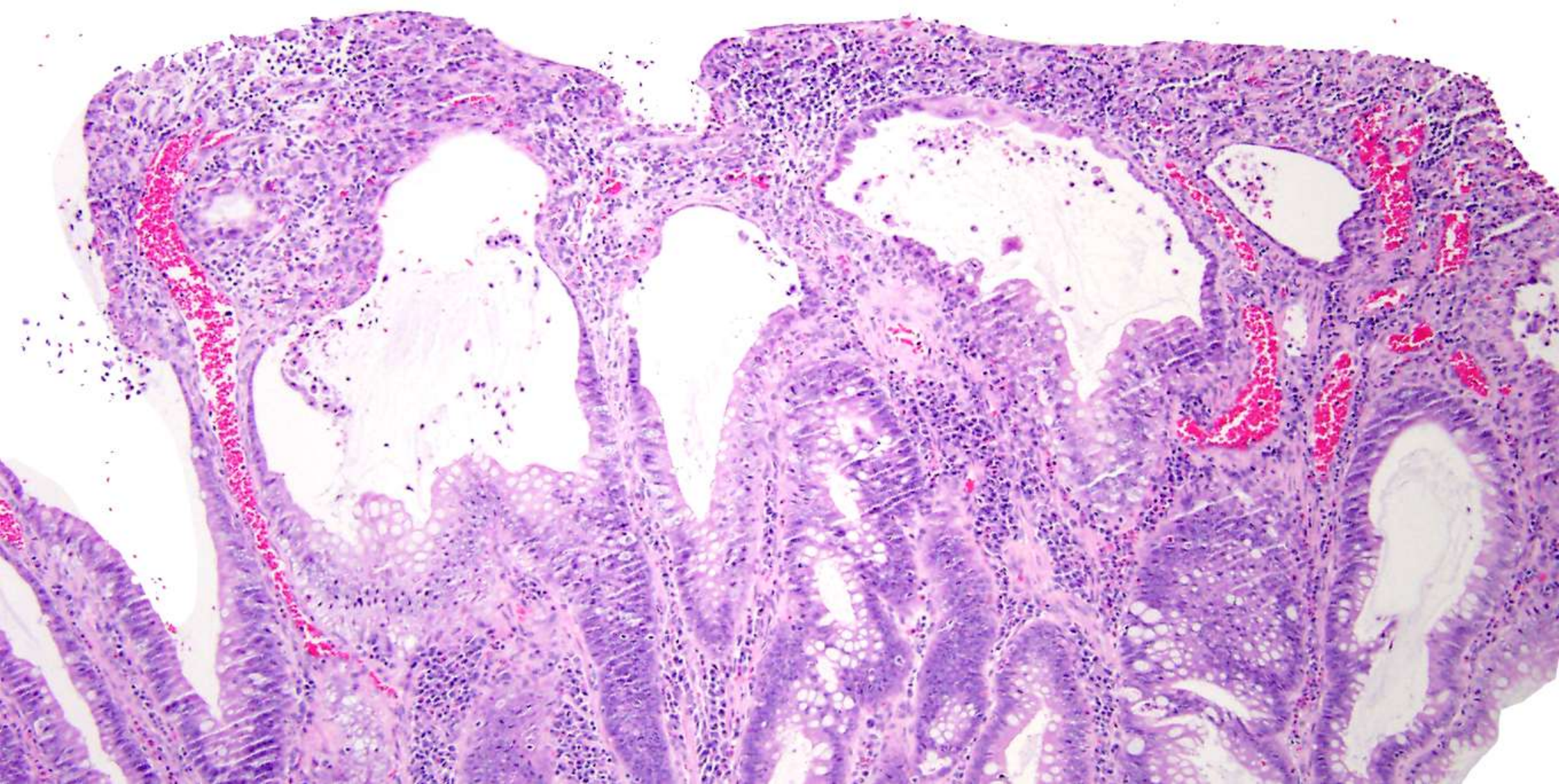


Case

- Middle aged women with horrible mucoid diarrhea and numerous distal colorectal polyps. She finally required distal resection to reduce symptoms

rectum



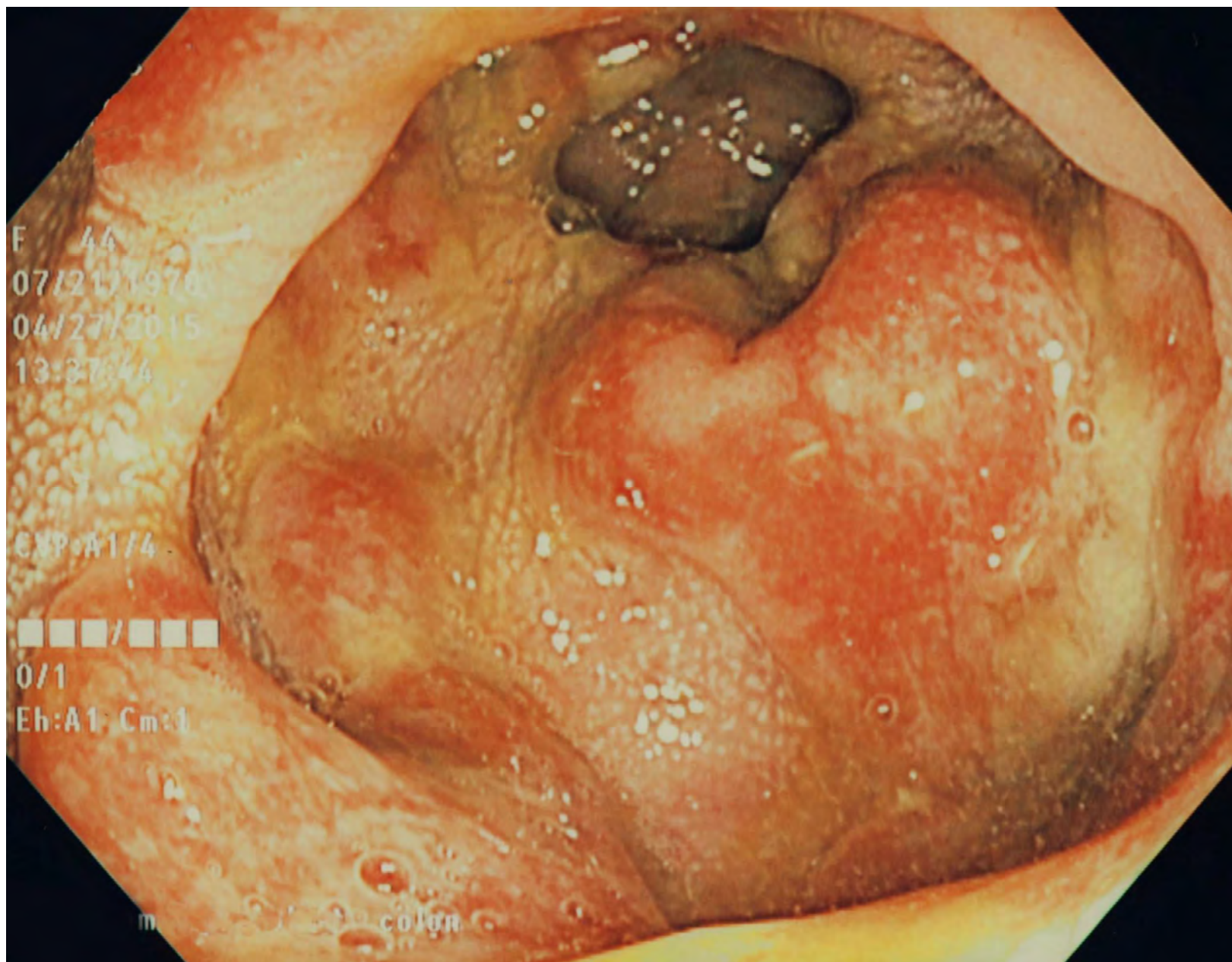




Resection - Cap polyposis

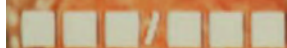
Another Odd One

- Cap polyposis (not hereditary – cause unknown)
- ? A type of mucosal prolapse syndrome
- Muroid hemorrhagic diarrhea, multiple polyps covered with caps of inflammatory exudate
- Female predominance, 5-6th decade of life
- Surgery often needed to control symptoms
- MANY PATIENTS ARE BELIEVED TO HAVE ULCERATIVE COLITIS



F 44
07/21/1978
04/27/2015
13:37:44

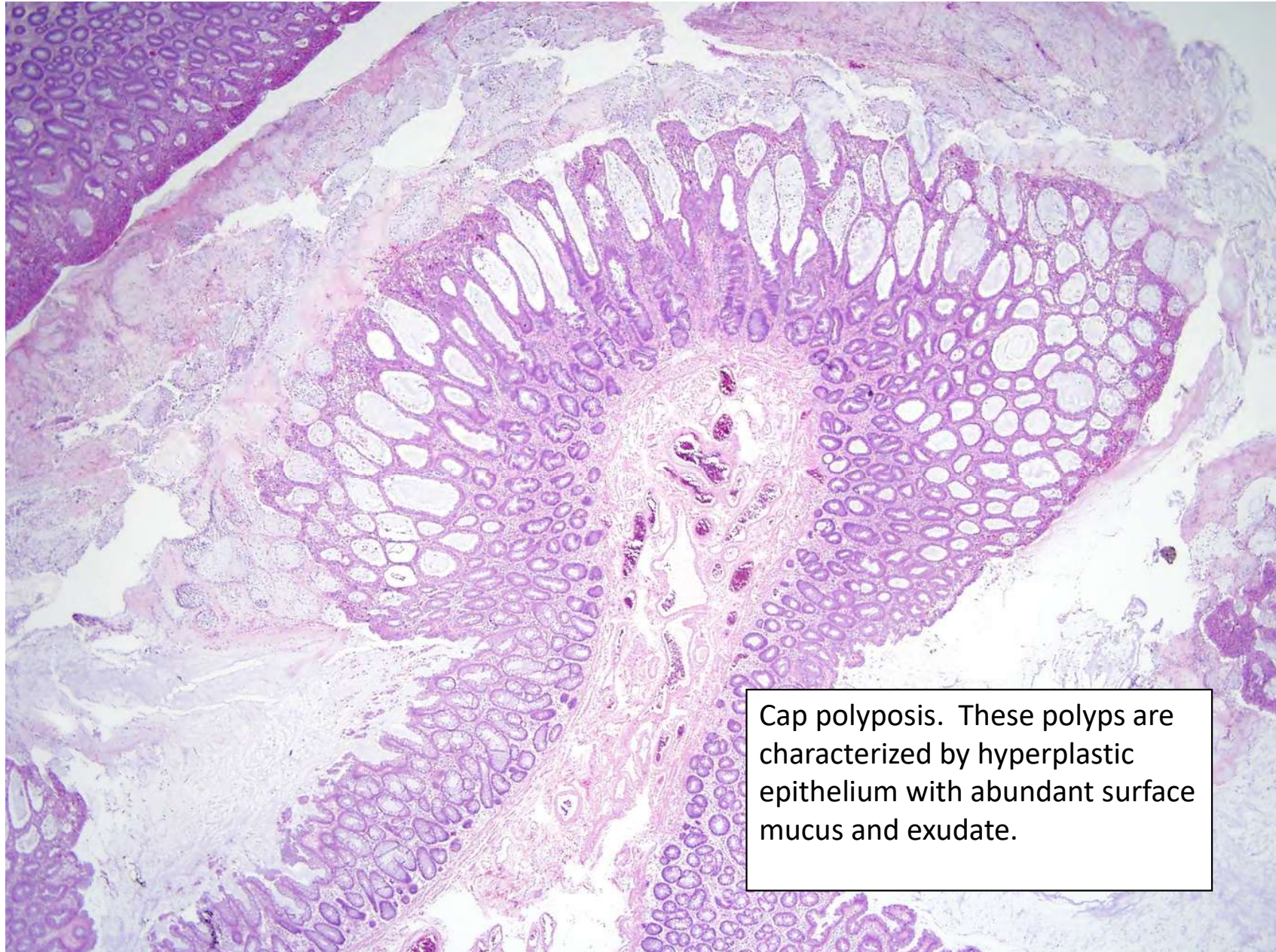
EXP: A1/4



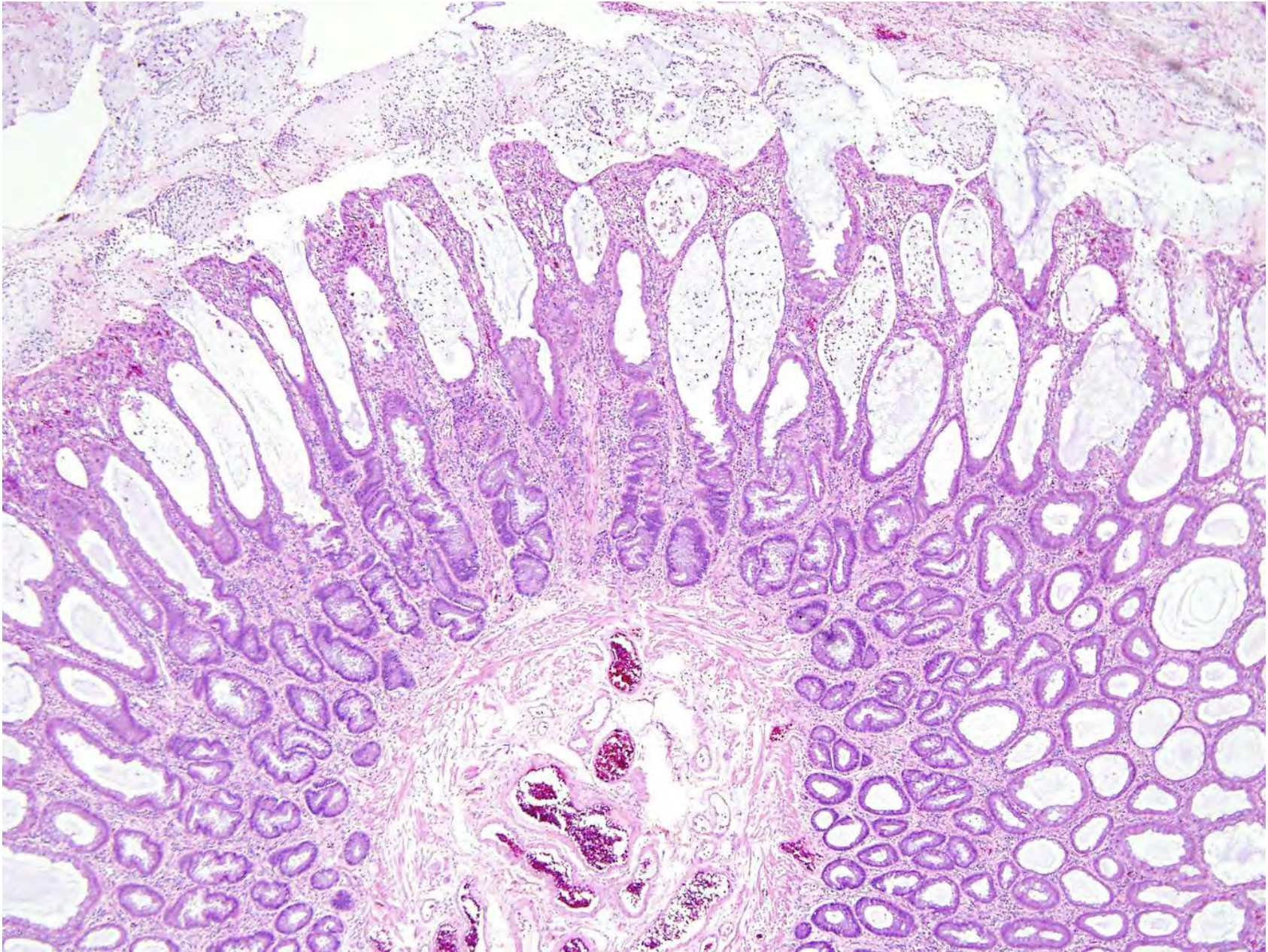
0/1

Eh: A1 Cm: 1

m colon



Cap polyposis. These polyps are characterized by hyperplastic epithelium with abundant surface mucus and exudate.



Summary

- We have discussed some general concepts concerning common and rare colonic polyps.
- We have noted some non-hereditary polyposes that can cross our desks



VÅRMÖTE I PATOLOGI

NPM2025
19–21 MAY

NORDIC PATHOLOGY MEETING