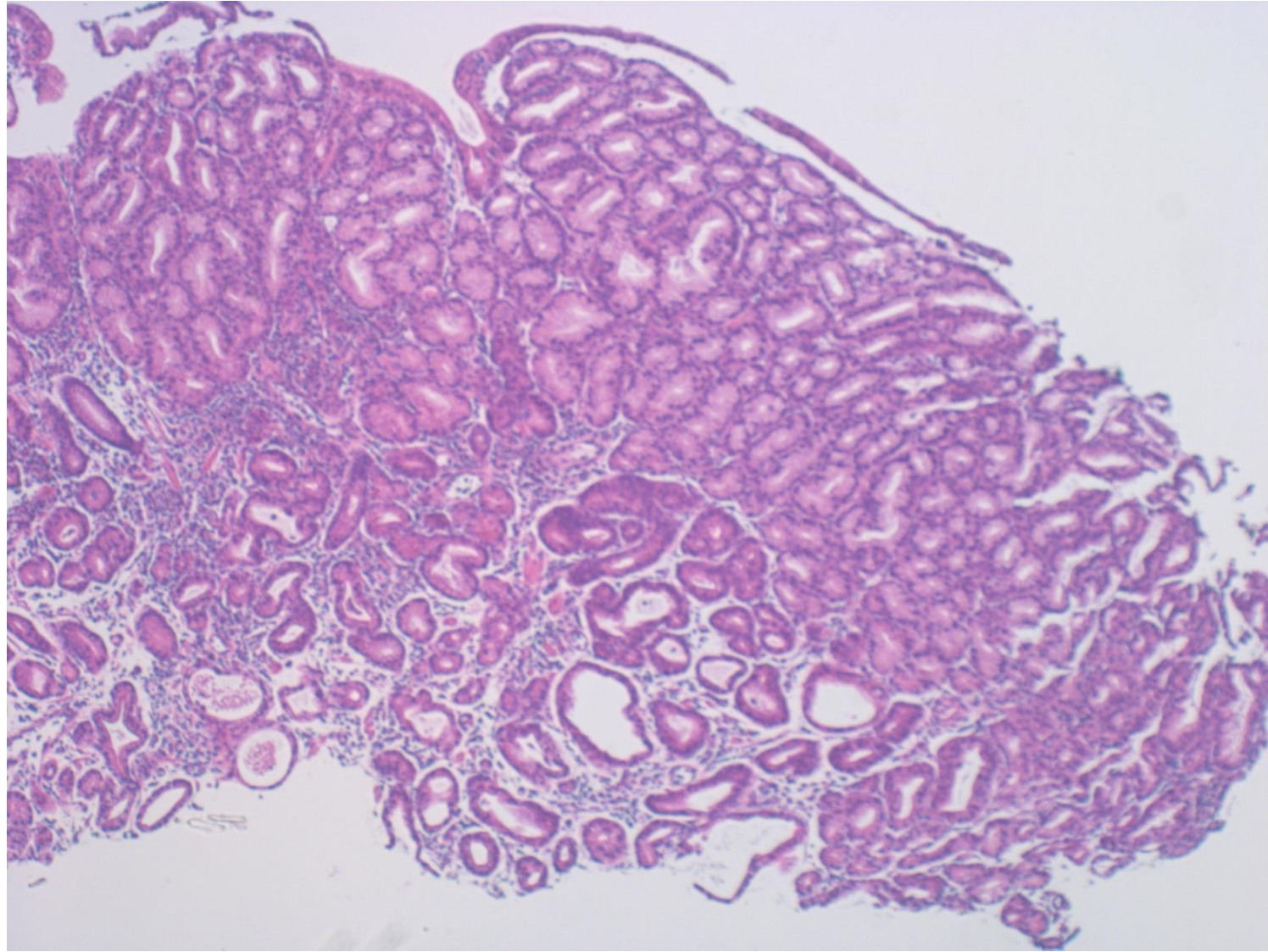


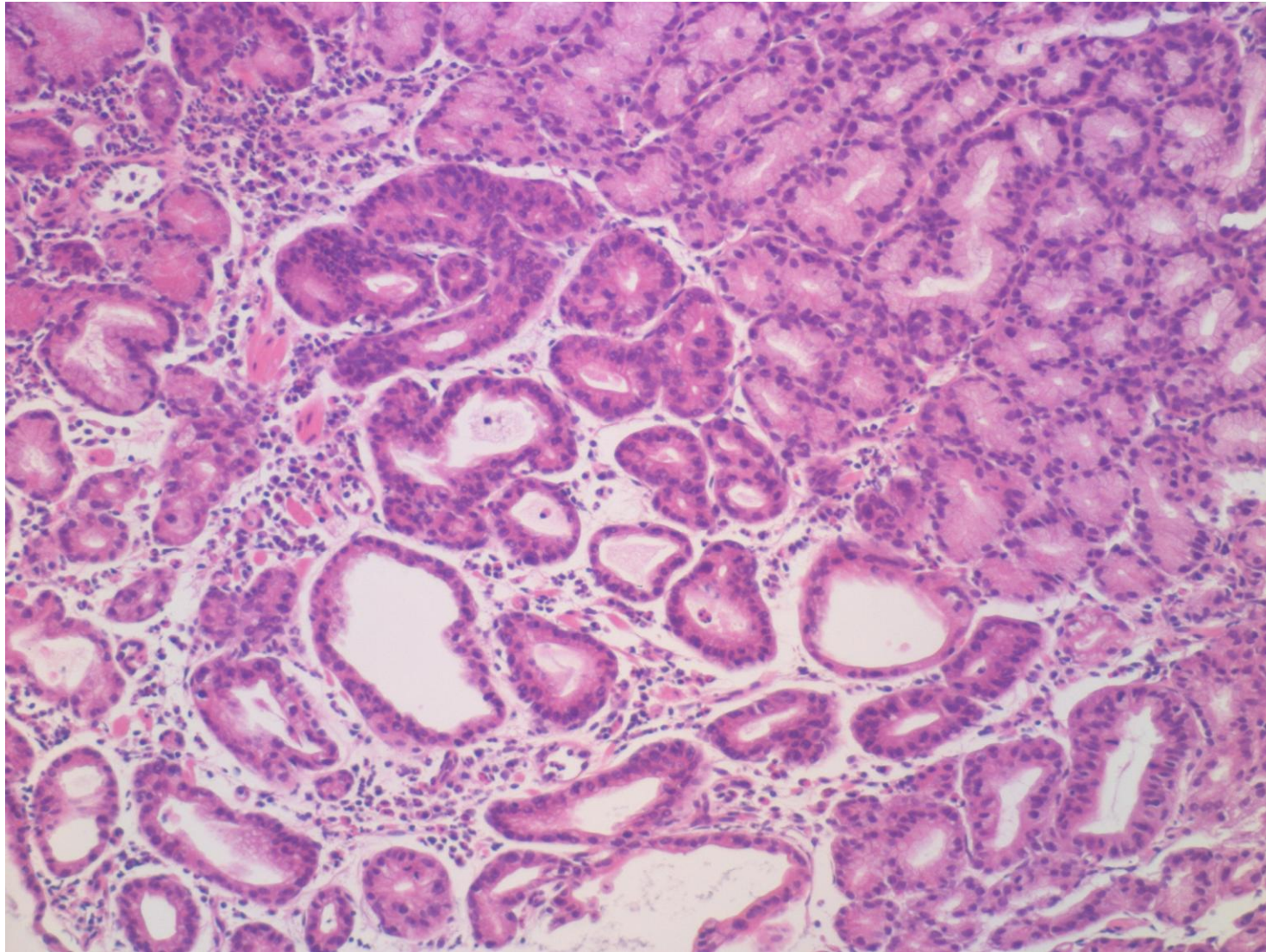
Pyloric gland adenocarcinoma (pyloric gland adenoma with high-grade dysplasia)

Pyloric gland adenoma presents with polypoid intramucosal growth of closely packed pyloric gland cells (mucin-containing cuboidal to low columnar cells). It is commonly observed in the gastric body, followed by the cardia and antrum. Frequently, high-grade nuclear atypia is associated. In the Japanese criteria, it is called as pyloric gland adenocarcinoma. Immunohistochemically, MUC6 is diffusely expressed in the deeper part, and MUC5AC in the superficial part. Intestinal markers such as MUC2, CDX2 and CD10 are negative. Mutational expression of p53 protein may be seen in the high-grade dysplasia/adenocarcinoma. Beta-catenin can also be expressed in the nuclei.

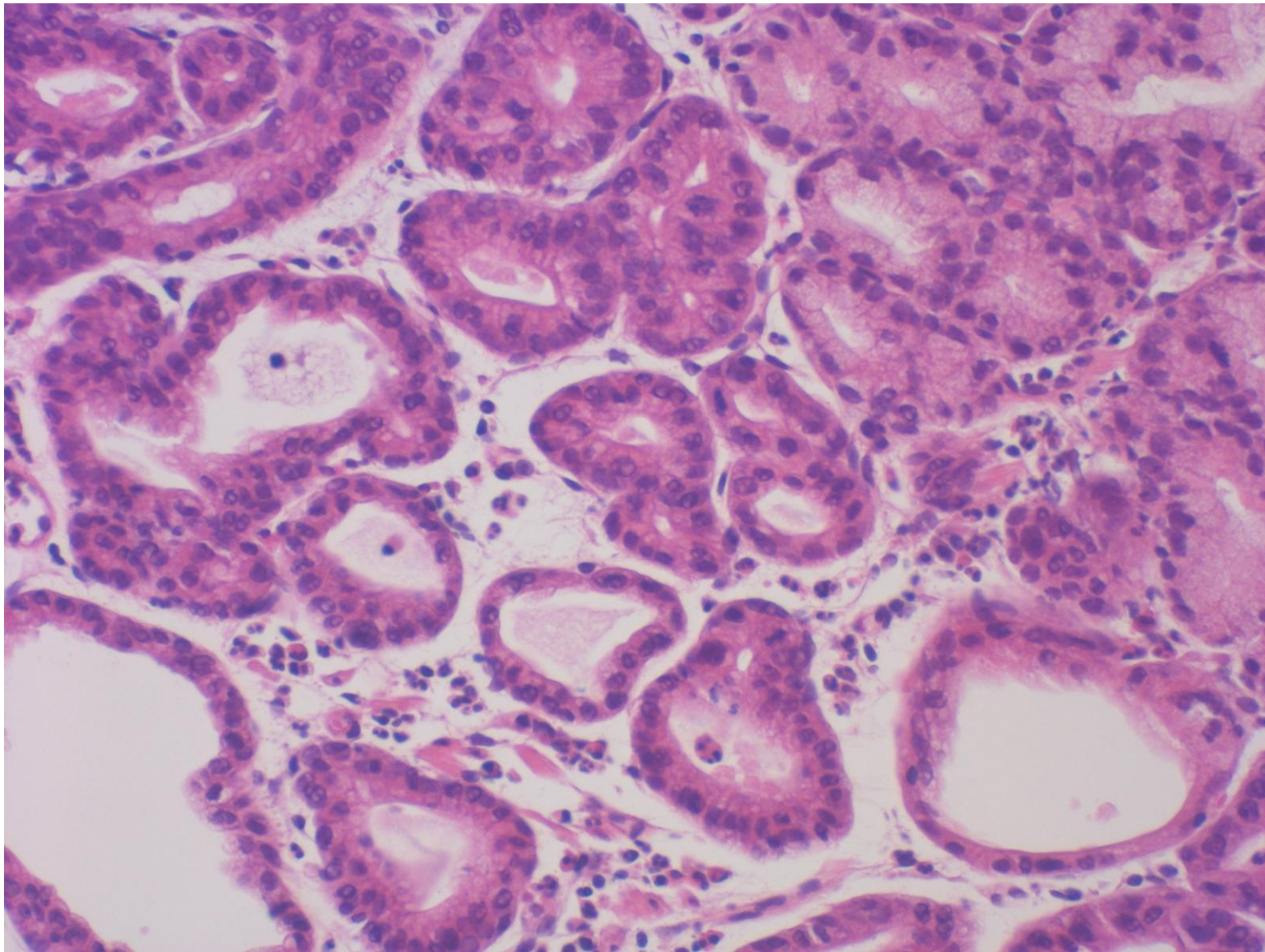
Ref.: Pezhouh MK, Park JY. Gastric pyloric gland adenoma. Arch Pathol Lab Med 2015; 139(6): 823-826. doi: 10.5858/arpa.2013-0613-RS



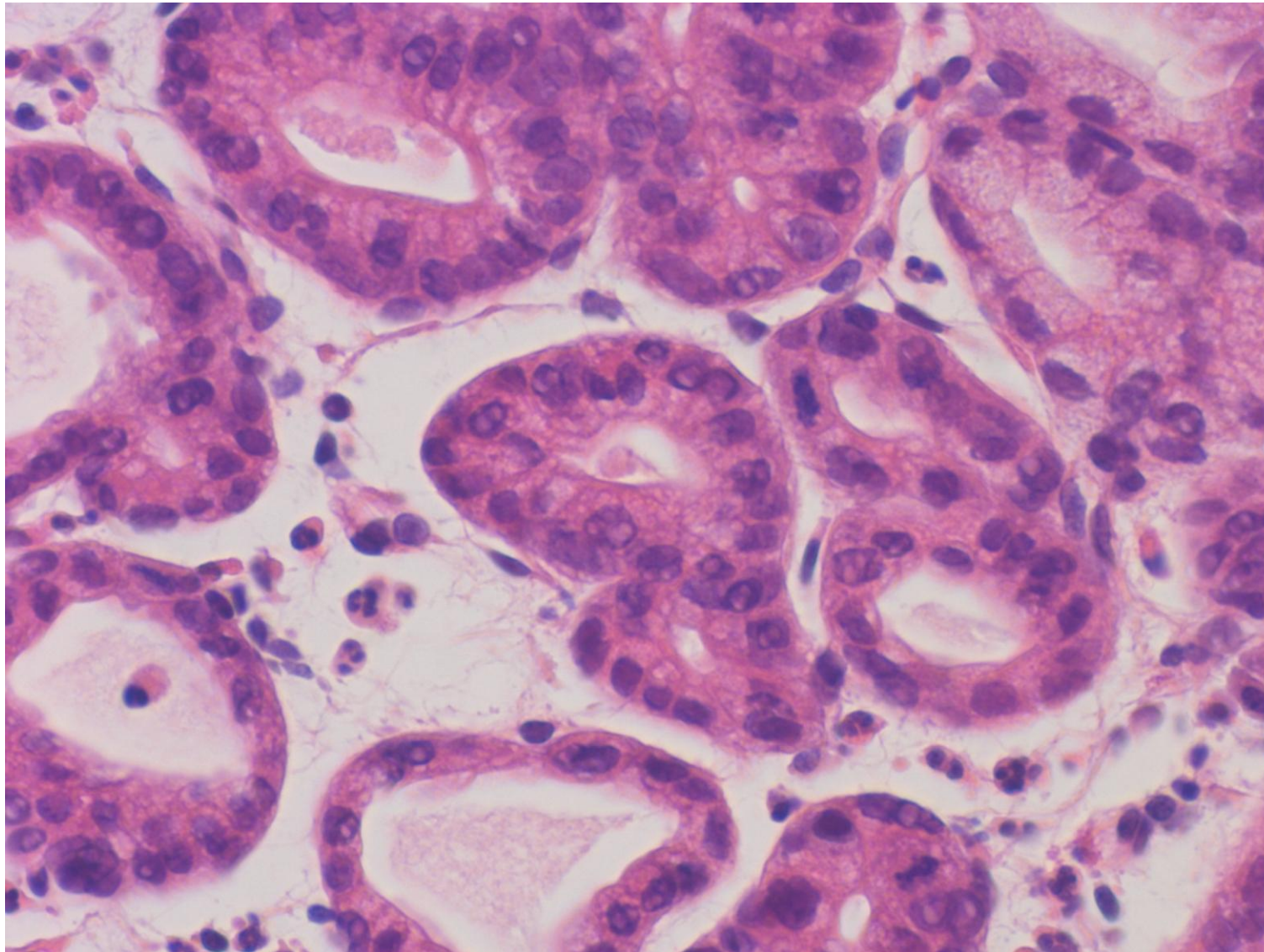
High-grade pyloric gland adenoma/pyloric gland adenocarcinoma forming a polypoid lesion in the gastric body mucosa of a 70-year-old male patient. Replacing (non-invasive) growth of mucin-containing tubular/acinar glands is seen. H&E-1



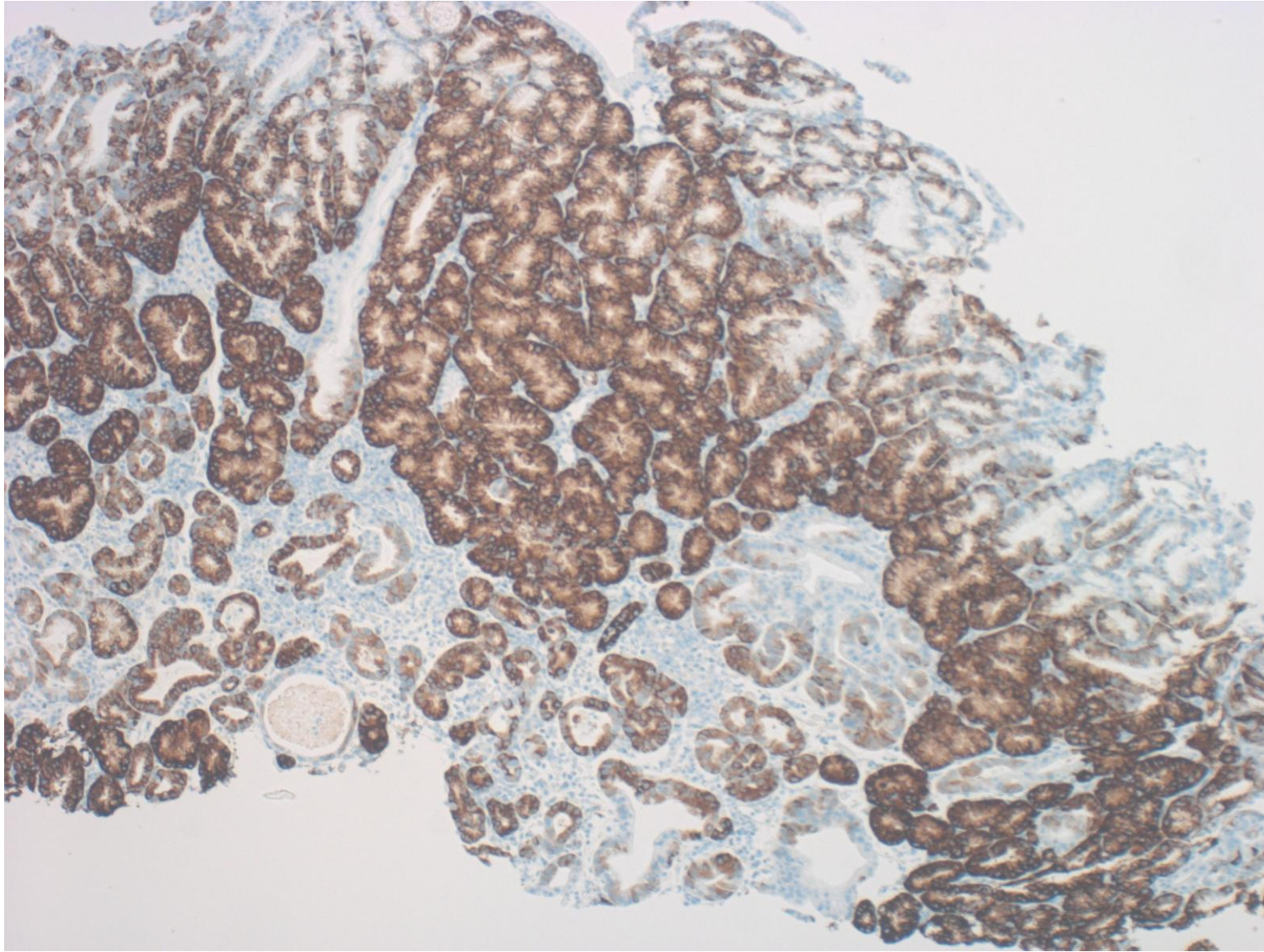
High-grade pyloric gland adenoma/pyloric gland adenocarcinoma forming a polypoid lesion in the gastric body mucosa of a 70-year-old male patient. Replacing (non-invasive) growth of mucin-containing tubular/acinar glands is seen. H&E-2



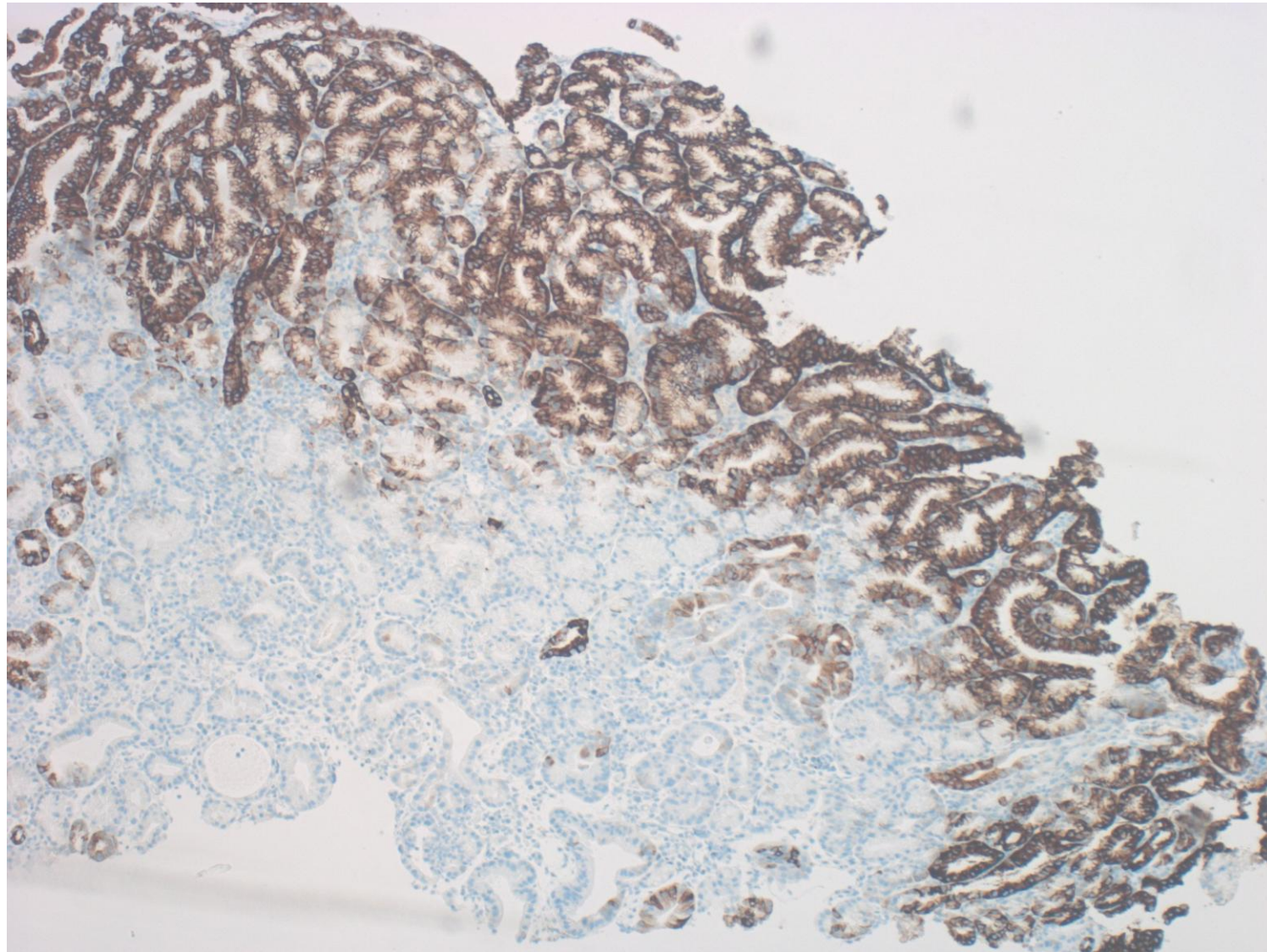
High-grade pyloric gland adenoma/pyloric gland adenocarcinoma forming a polypoid lesion in the gastric body mucosa of a 70-year-old male patient. Replacing (non-invasive) growth of mucin-containing tubular/acinar glands is seen. Nuclear pleomorphism and hyperchromasia are recognized. H&E-3



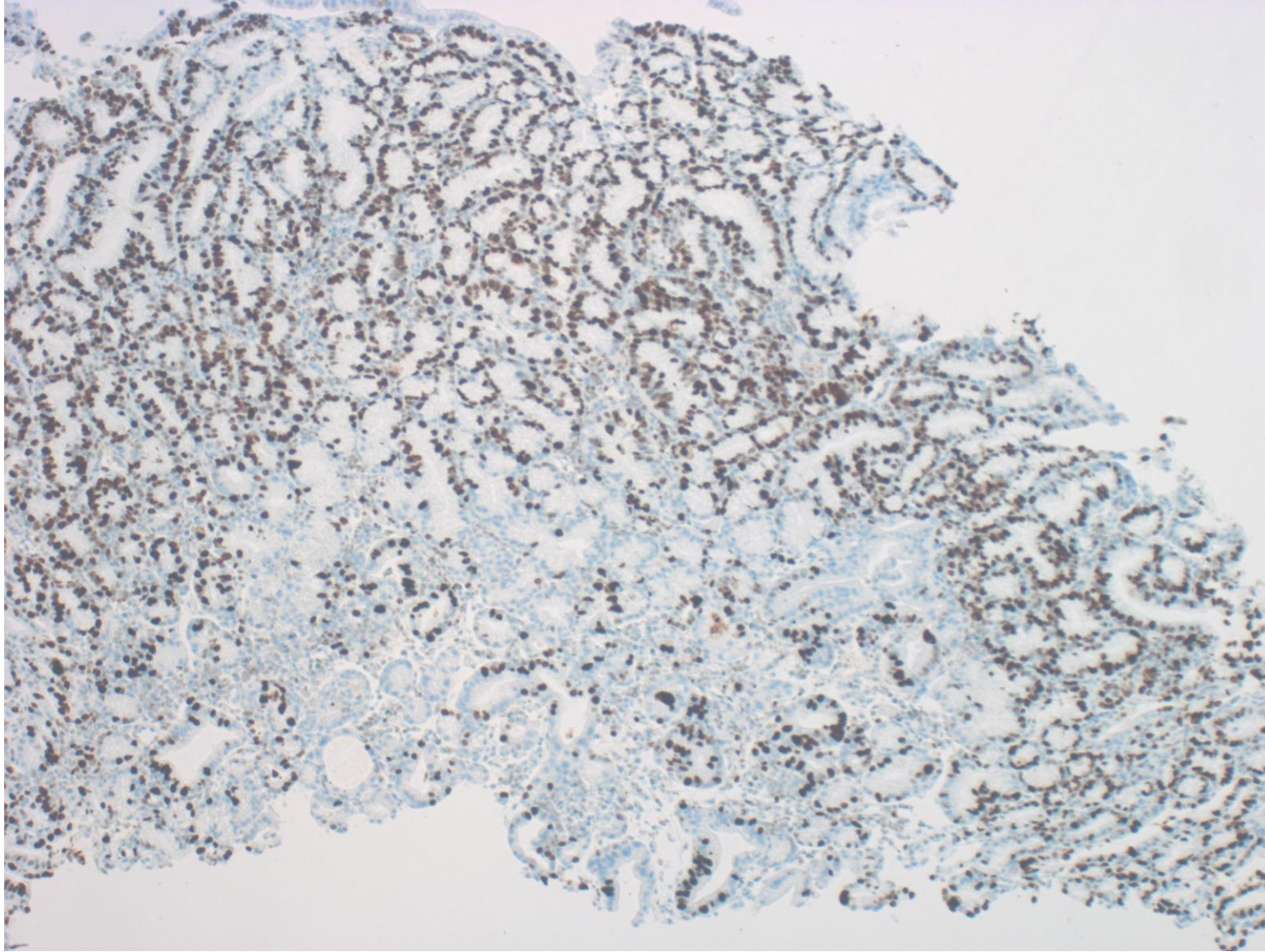
High-grade pyloric gland adenoma/pyloric gland adenocarcinoma forming a polypoid lesion in the gastric body mucosa of a 70-year-old male patient. Replacing (non-invasive) growth of mucin-containing tubular/acinar glands is seen. Nuclear pleomorphism and hyperchromasia are recognized. Mitoses are scattered. H&E-4



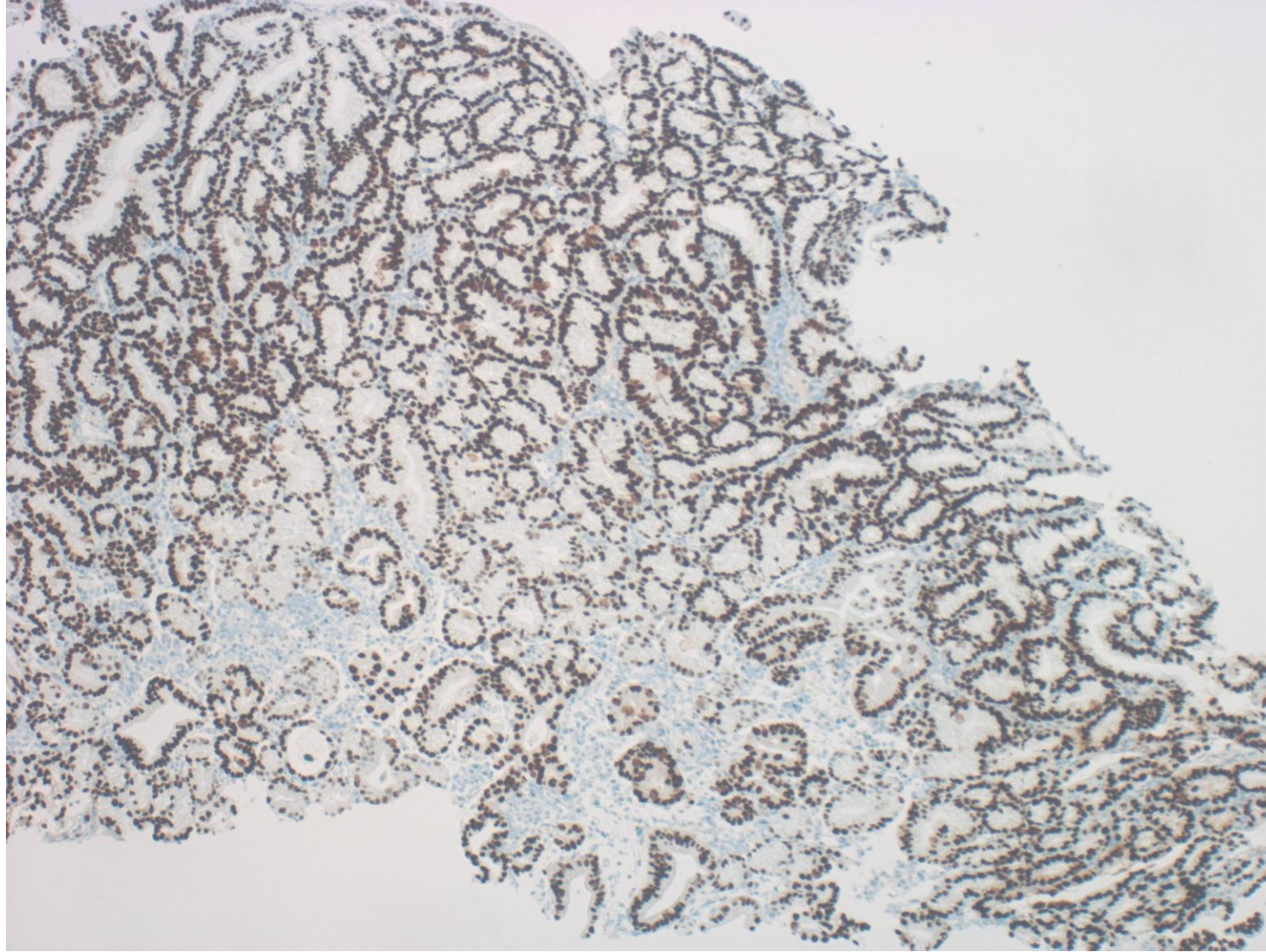
High-grade pyloric gland adenoma/pyloric gland adenocarcinoma forming a polypoid lesion in the gastric body mucosa of a 70-year-old male patient. MUC6-positive cells are located in the deeper part of the neoplastic lesion. Immunostaining for MUC6



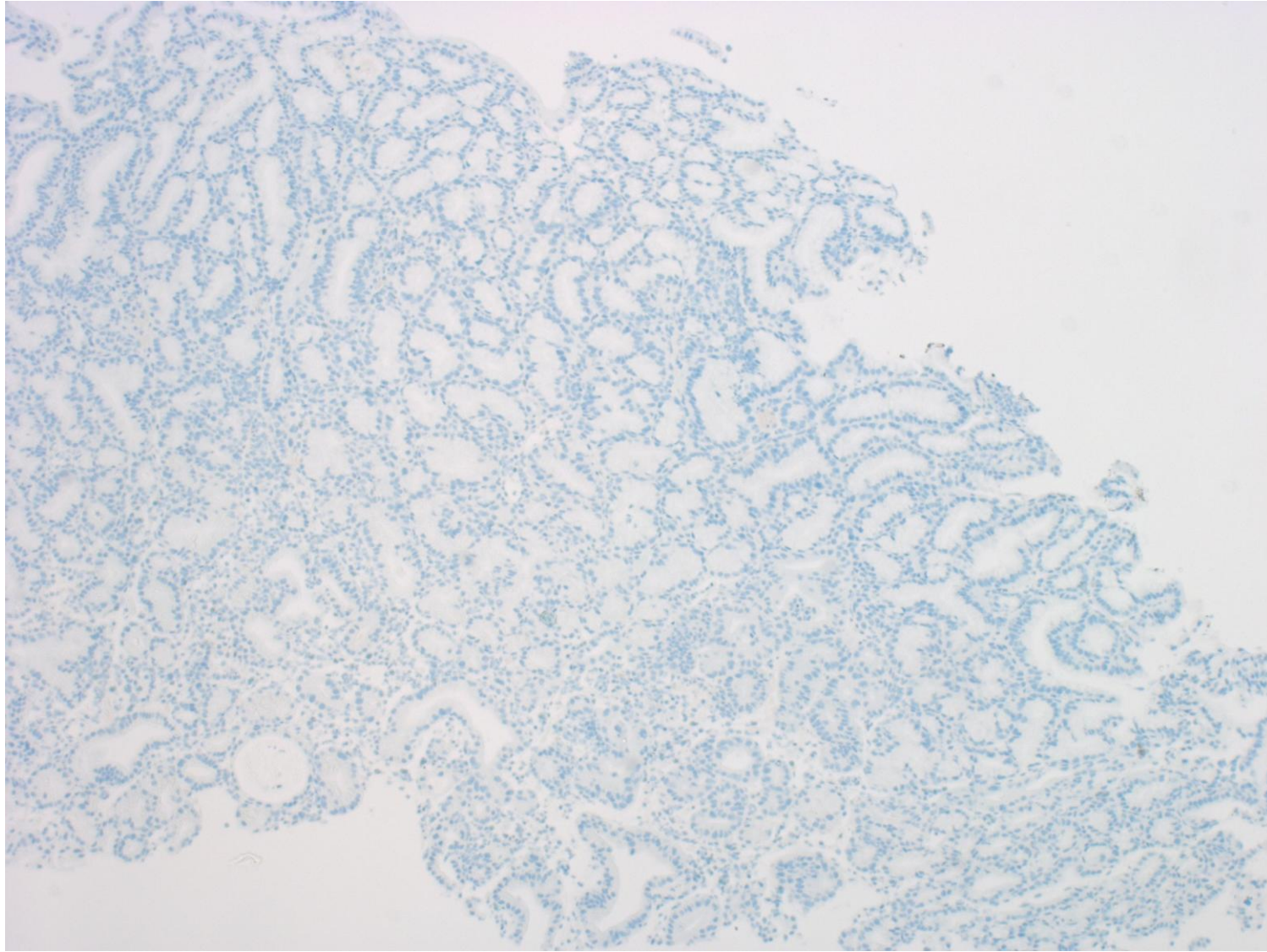
High-grade pyloric gland adenoma/pyloric gland adenocarcinoma forming a polypoid lesion in the gastric body mucosa of a 70-year-old male patient. MUC5AC-positive cells are located in the superficial part of the neoplastic lesion. Immunostaining for MUC5AC



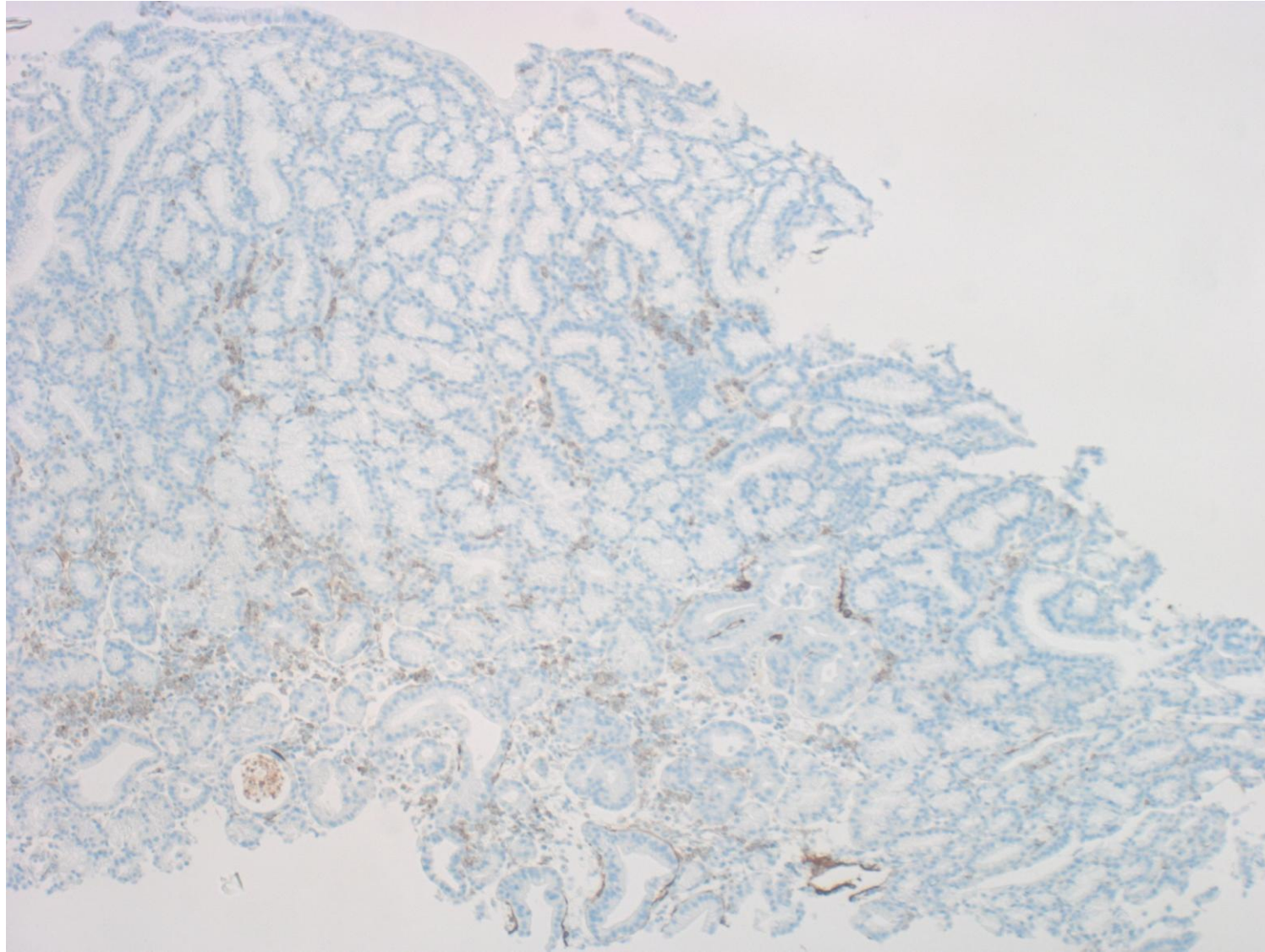
High-grade pyloric gland adenoma/pyloric gland adenocarcinoma forming a polypoid lesion in the gastric body mucosa of a 70-year-old male patient. Ki-67-positive proliferative cells are mainly located in the superficial half of the neoplastic lesion. Immunostaining for Ki-67



High-grade pyloric gland adenoma/pyloric gland adenocarcinoma forming a polypoid lesion in the gastric body mucosa of a 70-year-old male patient. p53-positive cells are diffusely located in the entire lesion with a mutational pattern. Immunostaining for p53



High-grade pyloric gland adenoma/pyloric gland adenocarcinoma forming a polypoid lesion in the gastric body mucosa of a 70-year-old male patient. MUC2-positive cells are not seen in the neoplastic lesion. Immunostaining for MUC2



High-grade pyloric gland adenoma/pyloric gland adenocarcinoma forming a polypoid lesion in the gastric body mucosa of a 70-year-old male patient. CD10-positive cells are not expressed in the neoplastic cells. Immunostaining for CD10