

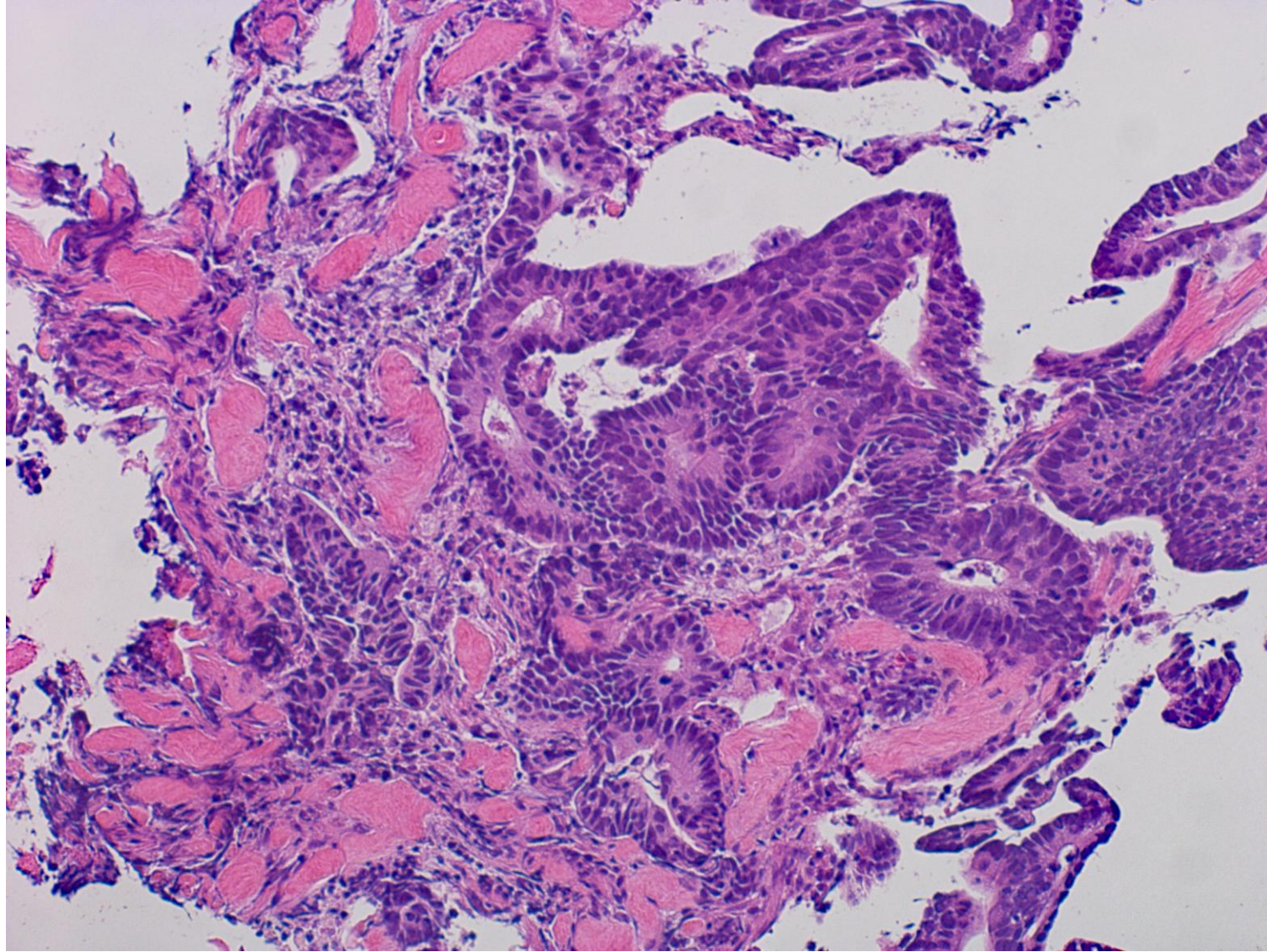
Colonic adenocarcinoma with keloid-like stroma

Desmoplastic reaction is considered a promising prognostic parameter for colorectal cancer. Keloid-like collagen (KC) may be seen in the fibrotic stroma, and occasionally, thick tufts of KC circumferentially surround the cancer nests in most of the invasive cancer tissue. Keloid-like collagen bundles consist of thick, hyalinized bundles of hypocellular collagen with bright eosinophilic hyalinization. The keloid-like collagen, as well as the myxoid stroma, are site-specific histopathological features generated by cancer-associated fibroblasts. Increased KC in colorectal cancer stroma predicts an adverse outcome.

Ref.-1: Ueno H, et al, Histopathological atlas of desmoplastic reaction characterization in colorectal cancer, Jpn J Clin Oncol 2021; 51(6): 1004-1012, doi: 10.1093/jjco/hyab040

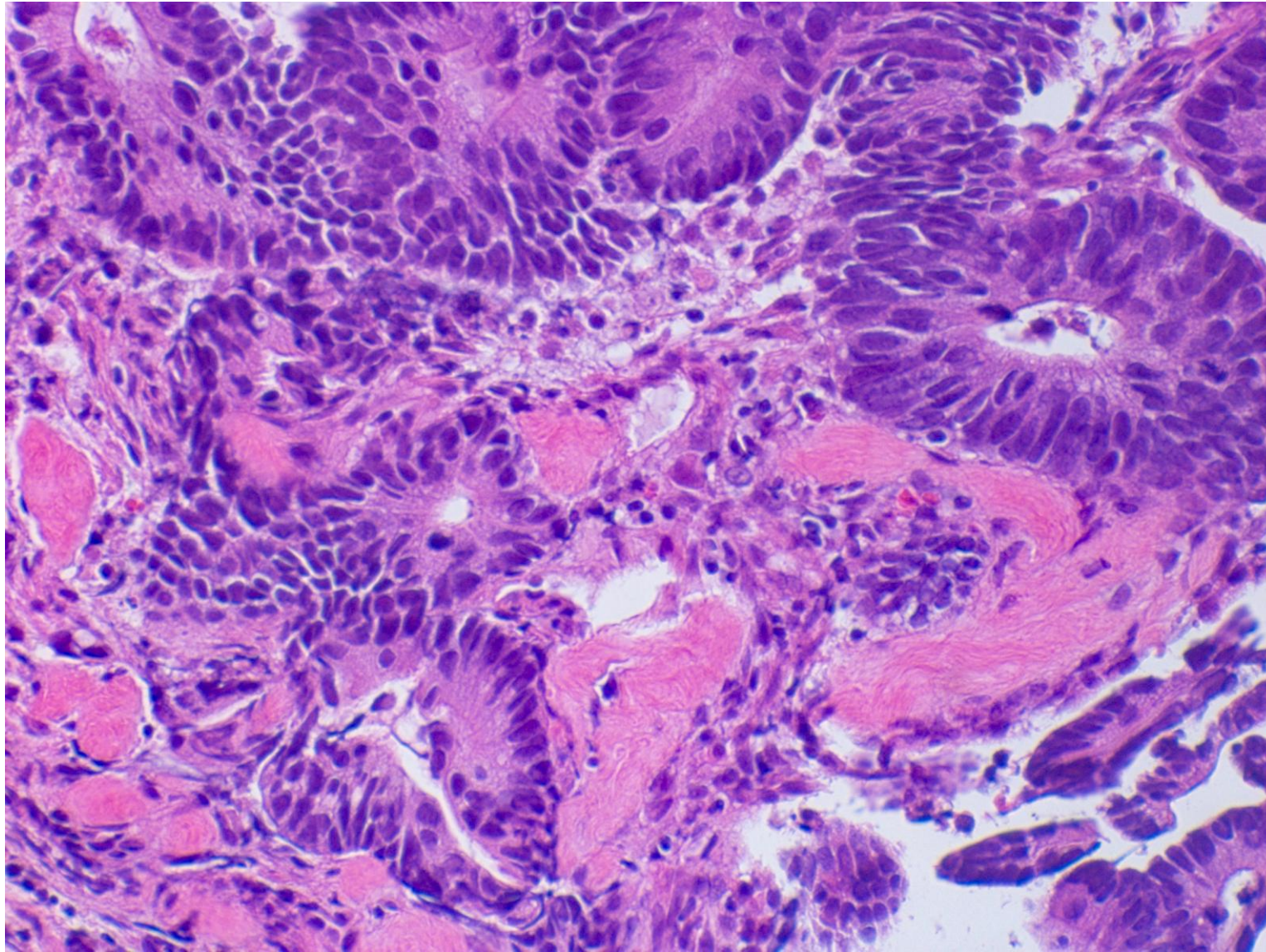
Ref.-2: Imanbayev NM, et al. Diagnostic and prognostic significance of keloid-like collagen remodeling patterns in the extracellular matrix of colorectal cancer. Pathol Oncol Res 2024; 30: 1611789. doi: 10.3389/pore.2024.1611789

**Case 1:
75M.
biopsy
from the
rectum**



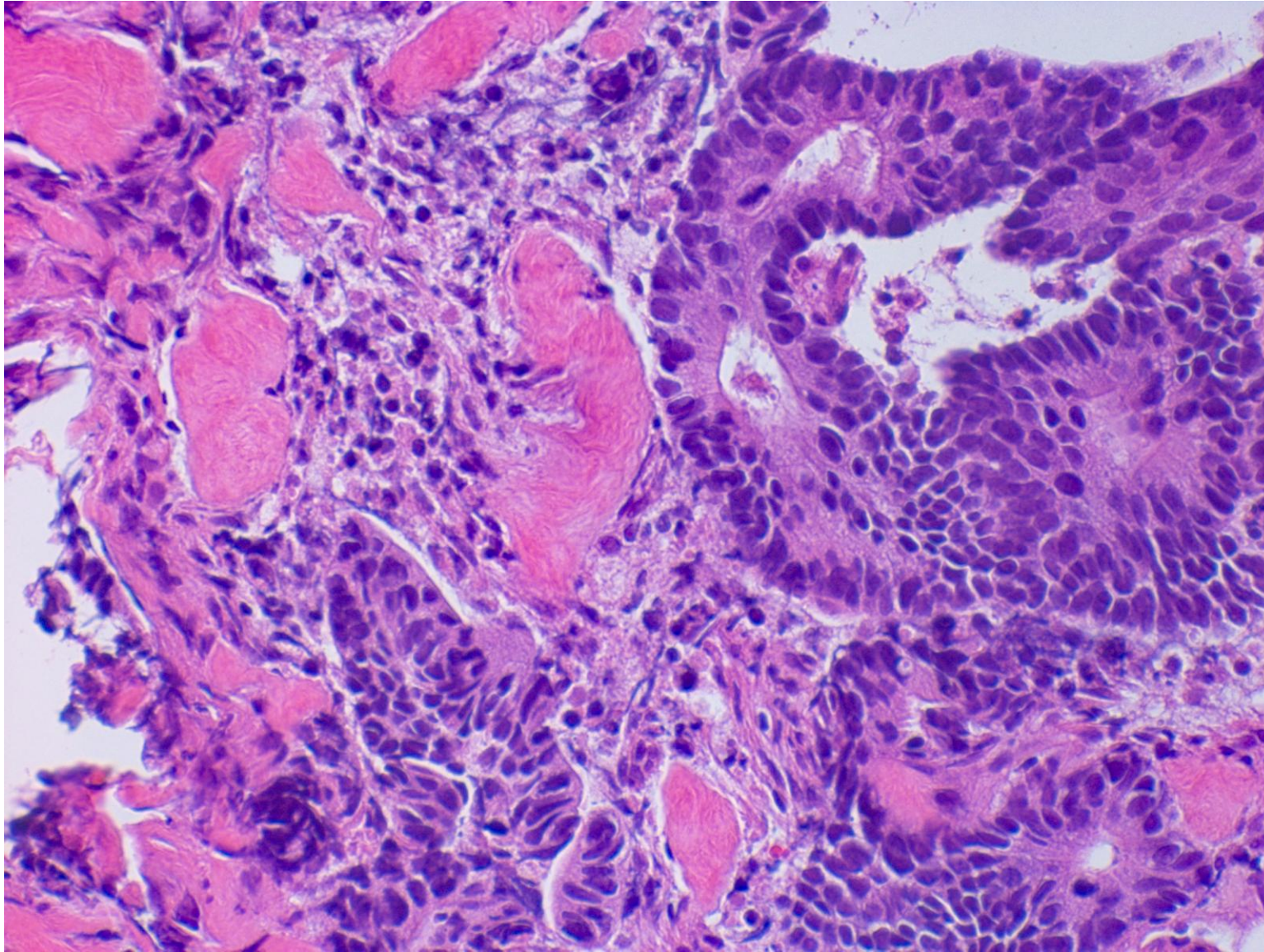
Rectal adenocarcinoma with keloid-like stroma biopsied from a 75 y-o male patient. Keloid-like eosinophilic thick collagen fibers are clustered in the cancer stroma (H&E-1).

**Case 1:
75M.
biopsy
from the
rectum**



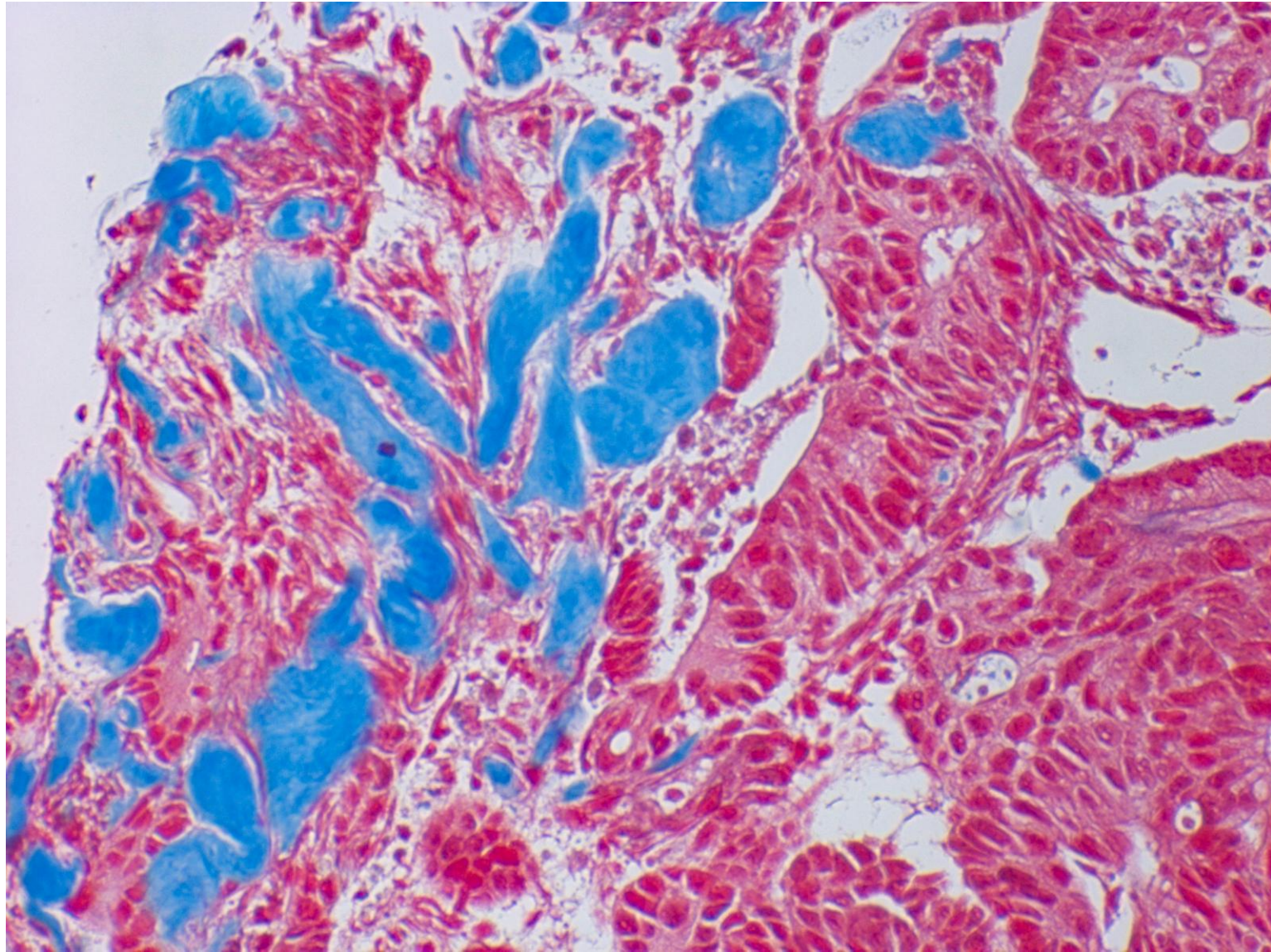
Rectal adenocarcinoma with keloid-like stroma biopsied from a 75 y-o male patient. Keloid-like eosinophilic thick collagen fibers are clustered in the cancer stroma (H&E-2).

**Case 1:
75M.
biopsy
from the
rectum**



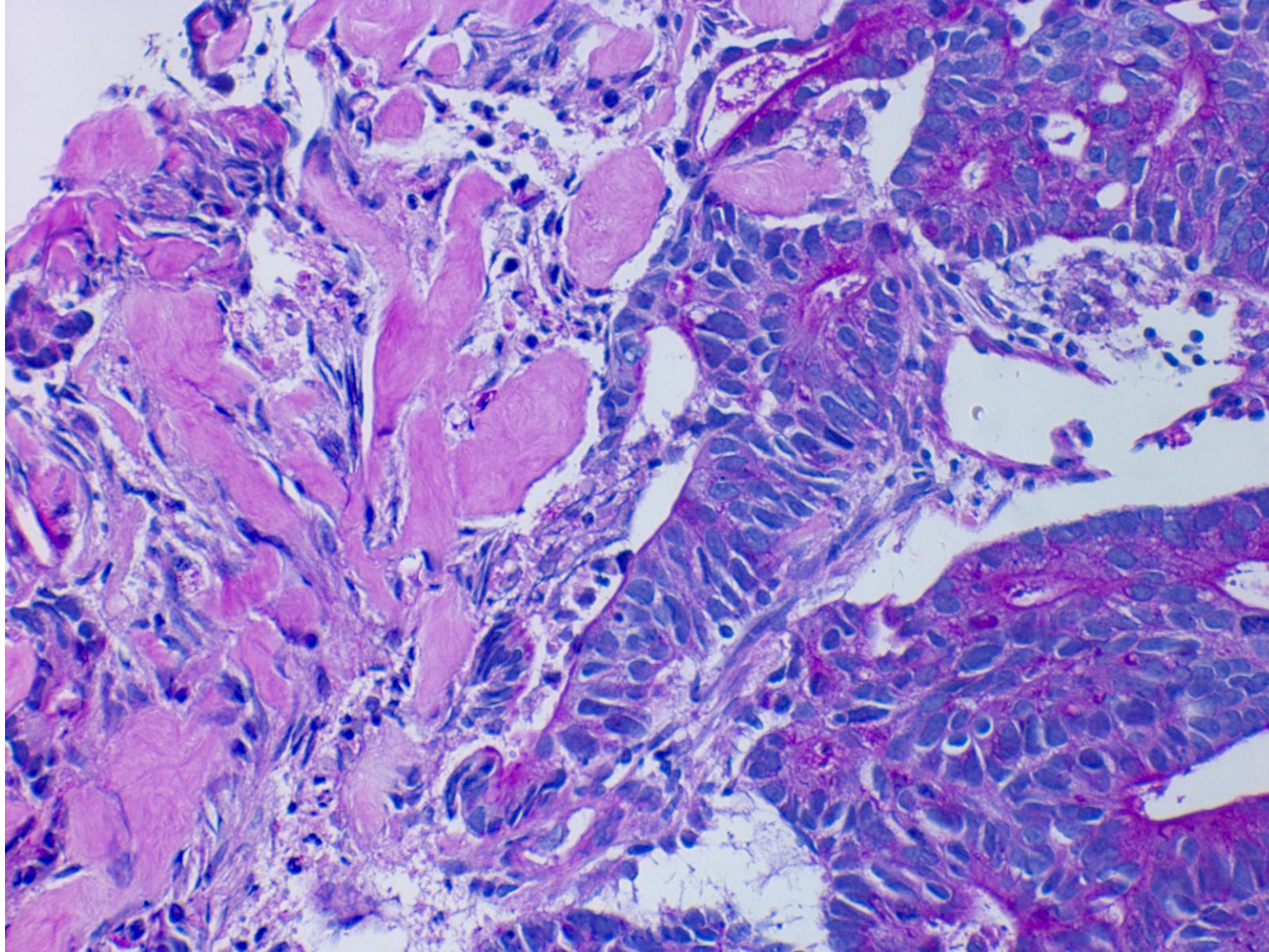
Rectal adenocarcinoma with keloid-like stroma biopsied from a 75 y-o male patient. Keloid-like eosinophilic thick collagen fibers are clustered in the cancer stroma (H&E-3).

**Case 1:
75M.
biopsy
from the
rectum**



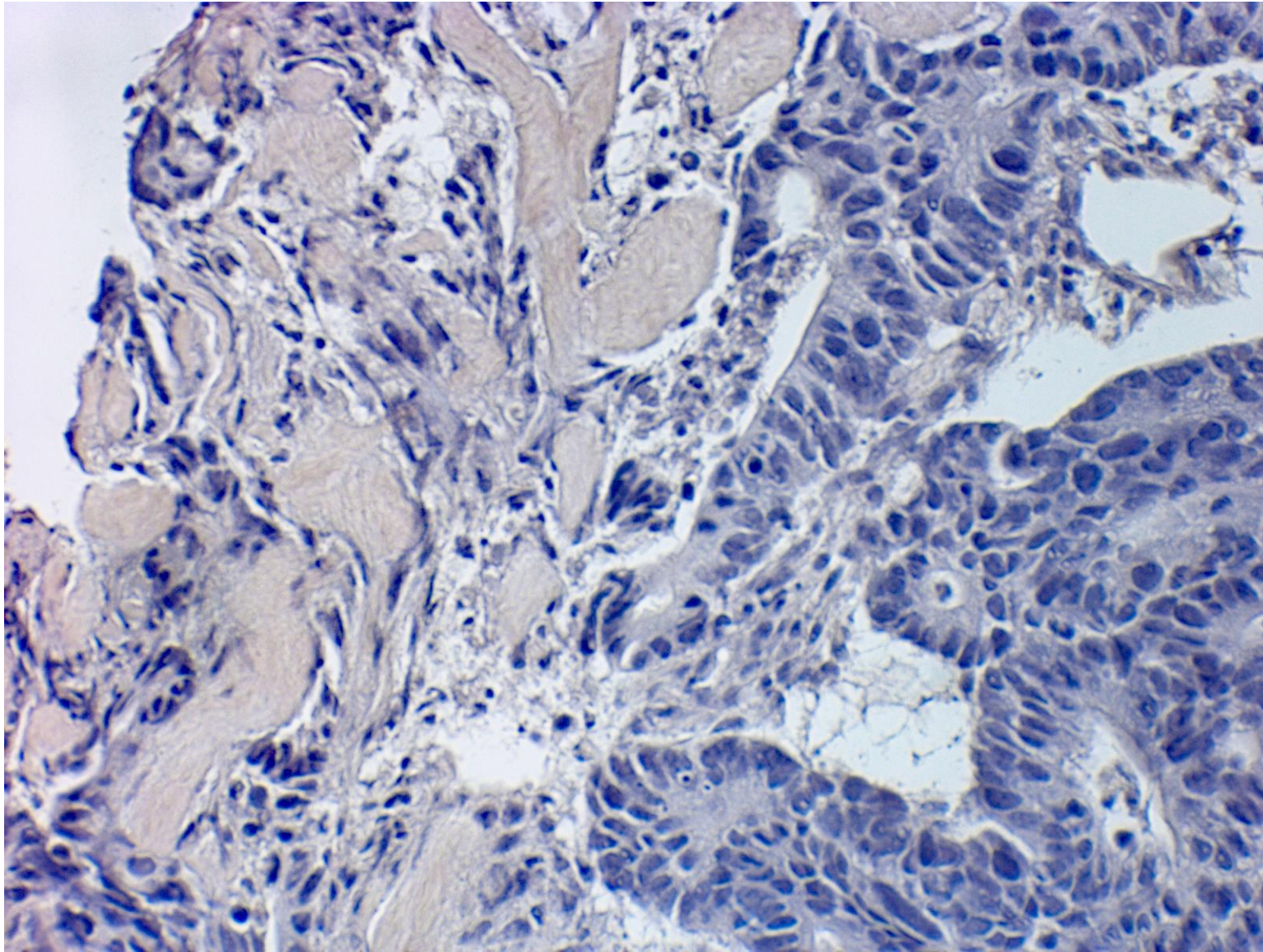
Rectal adenocarcinoma with keloid-like stroma biopsied from a 75 y-o male patient. Masson trichrome stains the keloid-like thick collagen fibers clustered in the cancer stroma blue (Masson trichrome).

**Case 1:
75M.
biopsy
from the
rectum**



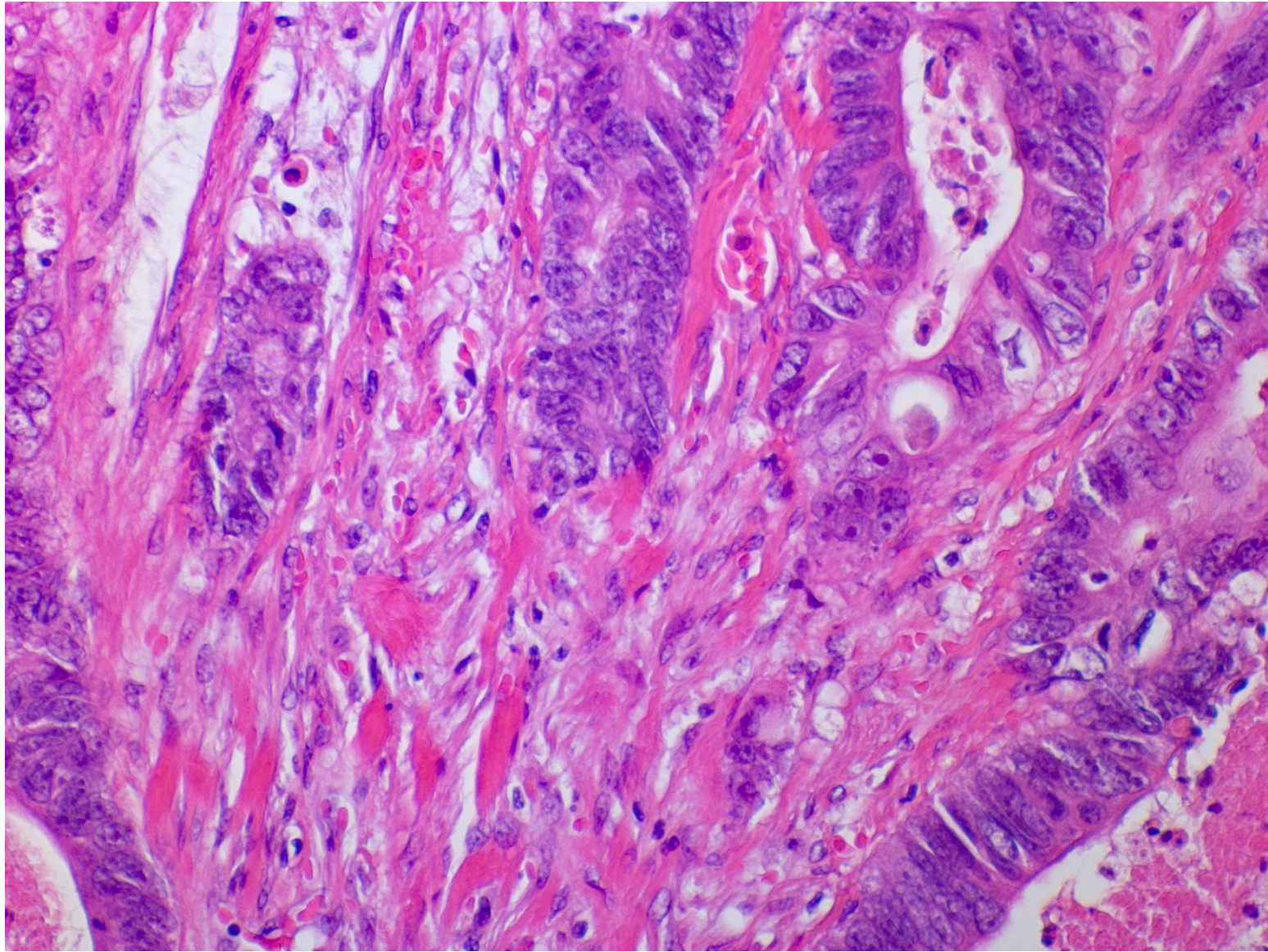
Rectal adenocarcinoma with keloid-like stroma biopsied from a 75 y-o male patient. The keloid-like thick collagen fibers clustered in the cancer stroma are stained faintly magenta with PAS reaction (PAS).

**Case 1:
75M.
biopsy
from the
rectum**



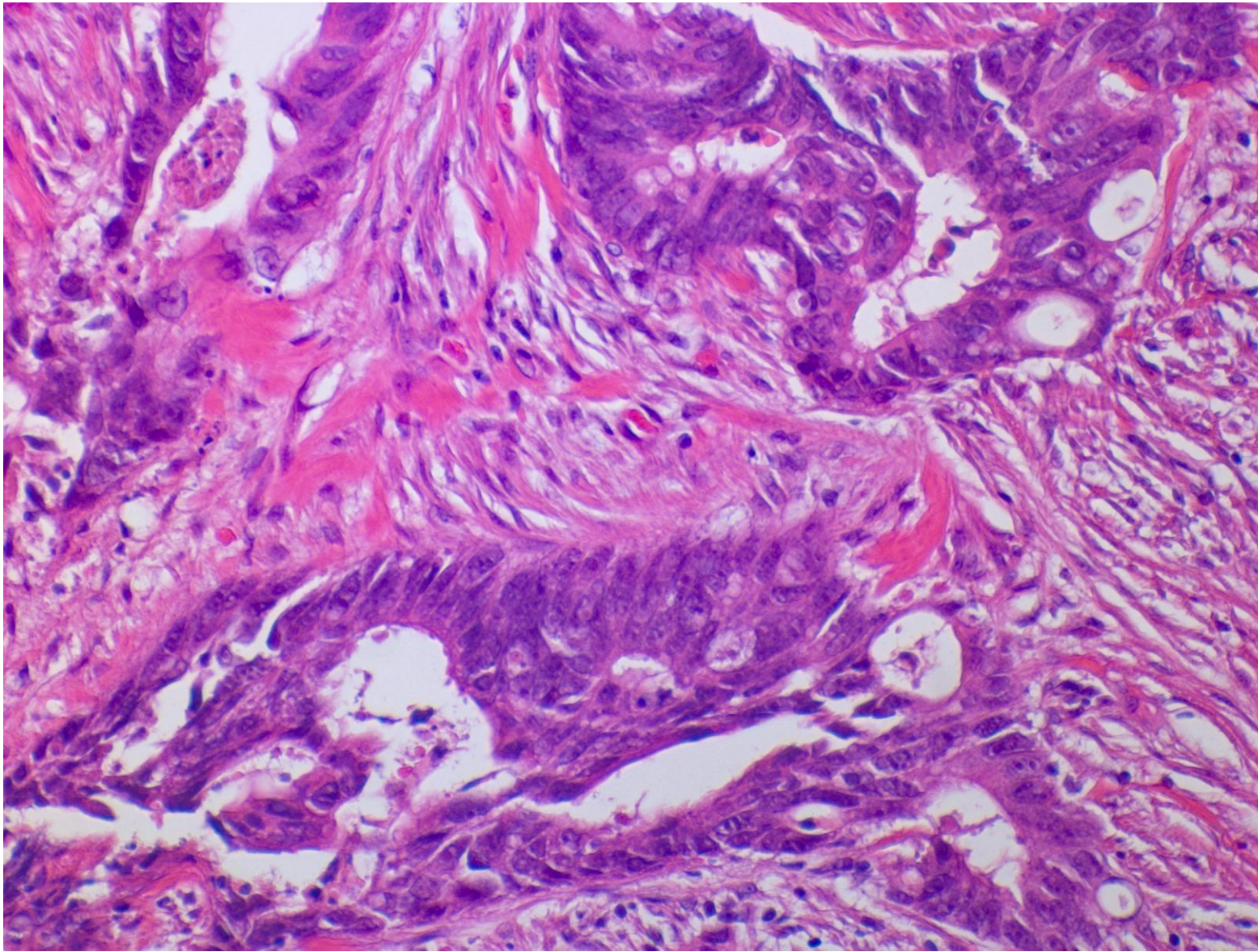
Rectal adenocarcinoma with keloid-like stroma biopsied from a 75 y-o male patient. The keloid-like thick collagen fibers clustered in the cancer stroma are negative with Congo red staining, excluding the possibility of amyloid deposition (Congo red).

**Case 2:
54M.
surgical
specimen
from the
T. colon**



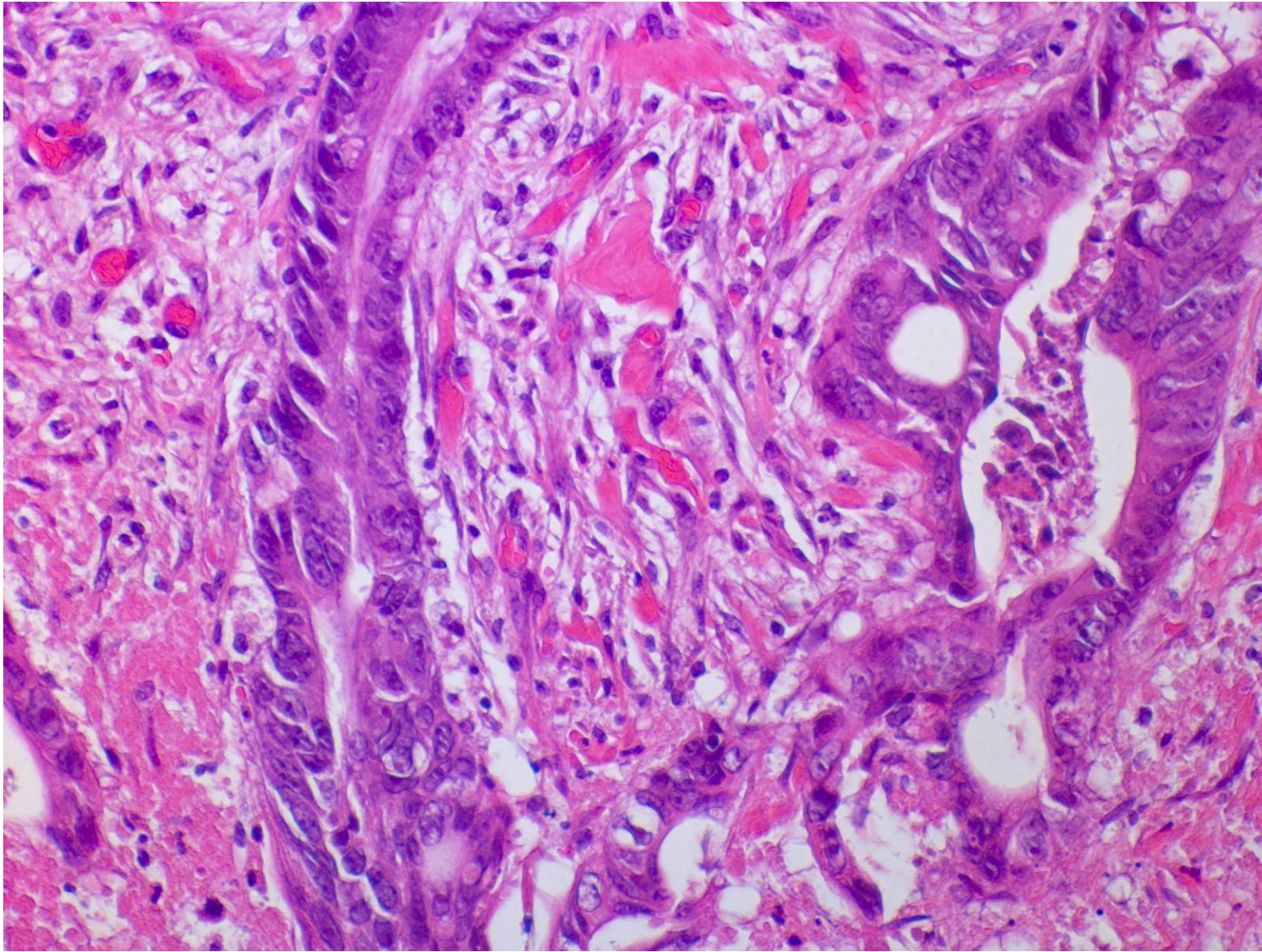
Colonic adenocarcinoma surgically removed from a 54 y-o male patient. The stroma of the transverse colon cancer reveals keloid-like reaction (case 2, H&E-a).

**Case 2:
54M.
surgical
specimen
from the
T. colon**



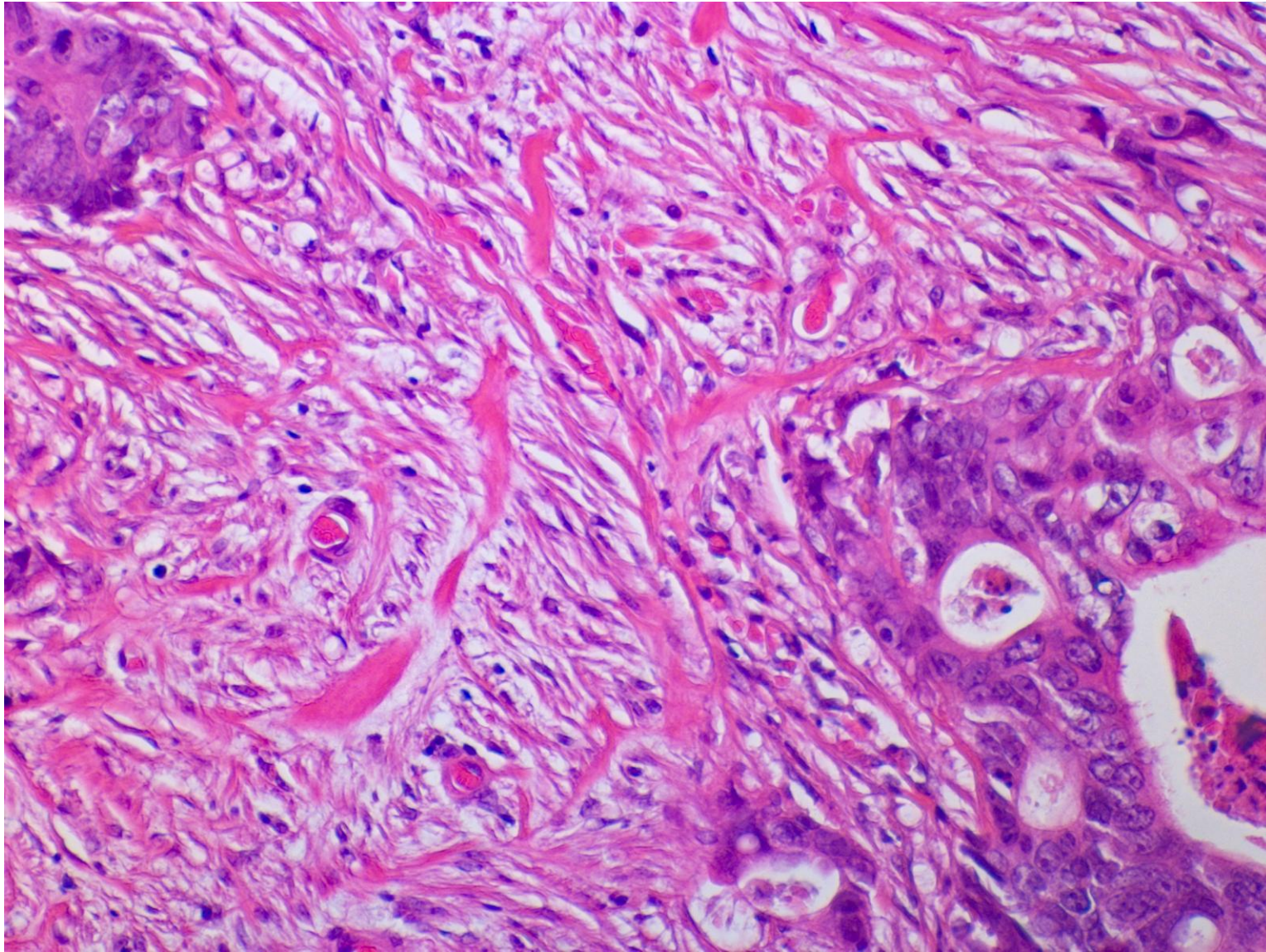
Colonic adenocarcinoma surgically removed from a 54 y-o male patient. The stroma of the transverse colon cancer reveals keloid-like reaction (case 2, H&E-b).

**Case 2:
54M.
surgical
specimen
from the
T. colon**



Colonic adenocarcinoma surgically removed from a 54 y-o male patient. The stroma of the transverse colon cancer reveals keloid-like reaction (case 2, H&E-c).

**Case 2:
54M.
surgical
specimen
from the
T. colon**



Colonic adenocarcinoma surgically removed from a 54 y-o male patient. The stroma of the transverse colon cancer reveals keloid-like reaction (case 2, H&E-d).