

# CASE 039

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A 55-year old female patient (Patient A) presented with an FDG-avid mass in the uncinate process and head of pancreas. We received an Ultrasound guided biopsy for review and immunohistochemistry (IHC). Another patient, a 53-year old female (Patient B) presented with a gastric mass. We received the blocks for review and IHC.

## HISTOMORPHOLOGY

Sections from the Pancreatic mass showed areas of necrosis with foci of viable tumor cells arranged in nests and cords with a relatively monomorphic appearance and many cells displaying a plasmacytoid morphology. Individual cells had round nuclei with fine granular chromatin and moderate amount of eosinophilic cytoplasm. Mitosis ~3/10hpf.

On the other hand sections examined from gastric mass showed a cellular tumor that revealed areas of necrosis admixed with viable tumors areas composed of large cells with scant cytoplasm, high N:C ratio and round hyperchromatic nuclei. Brisk mitotic activity was seen.

## IMMUNOHISTOCHEMISTRY

Tumor A showed diffuse positivity for Synaptophysin, CD56 and Chromogranin with a Ki67 proliferation index of 25%. Tumor B also showed diffuse positivity for Neuroendocrine markers with a Ki67 proliferation of 90% and positivity for P53 with retained ATRX expression.