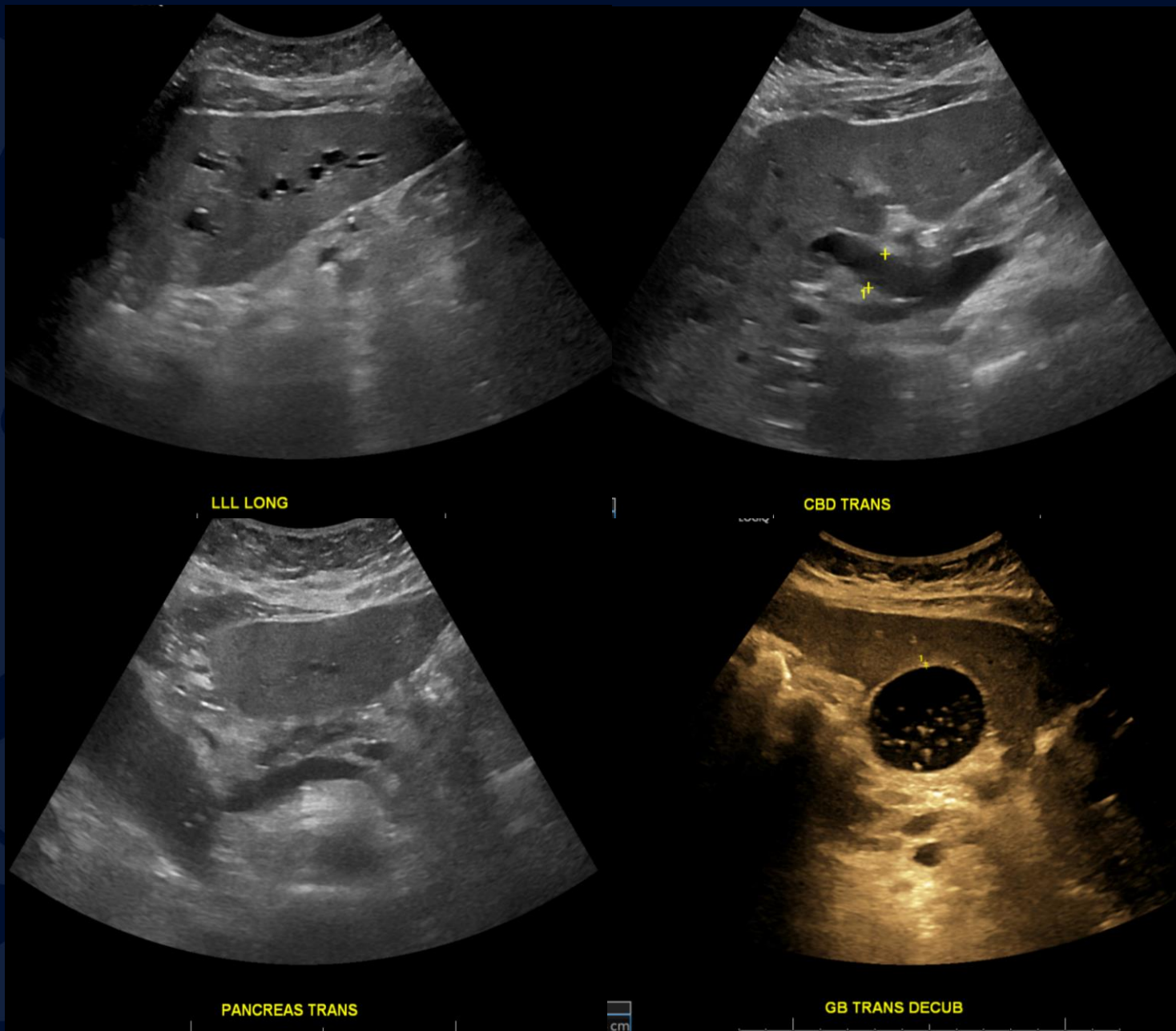
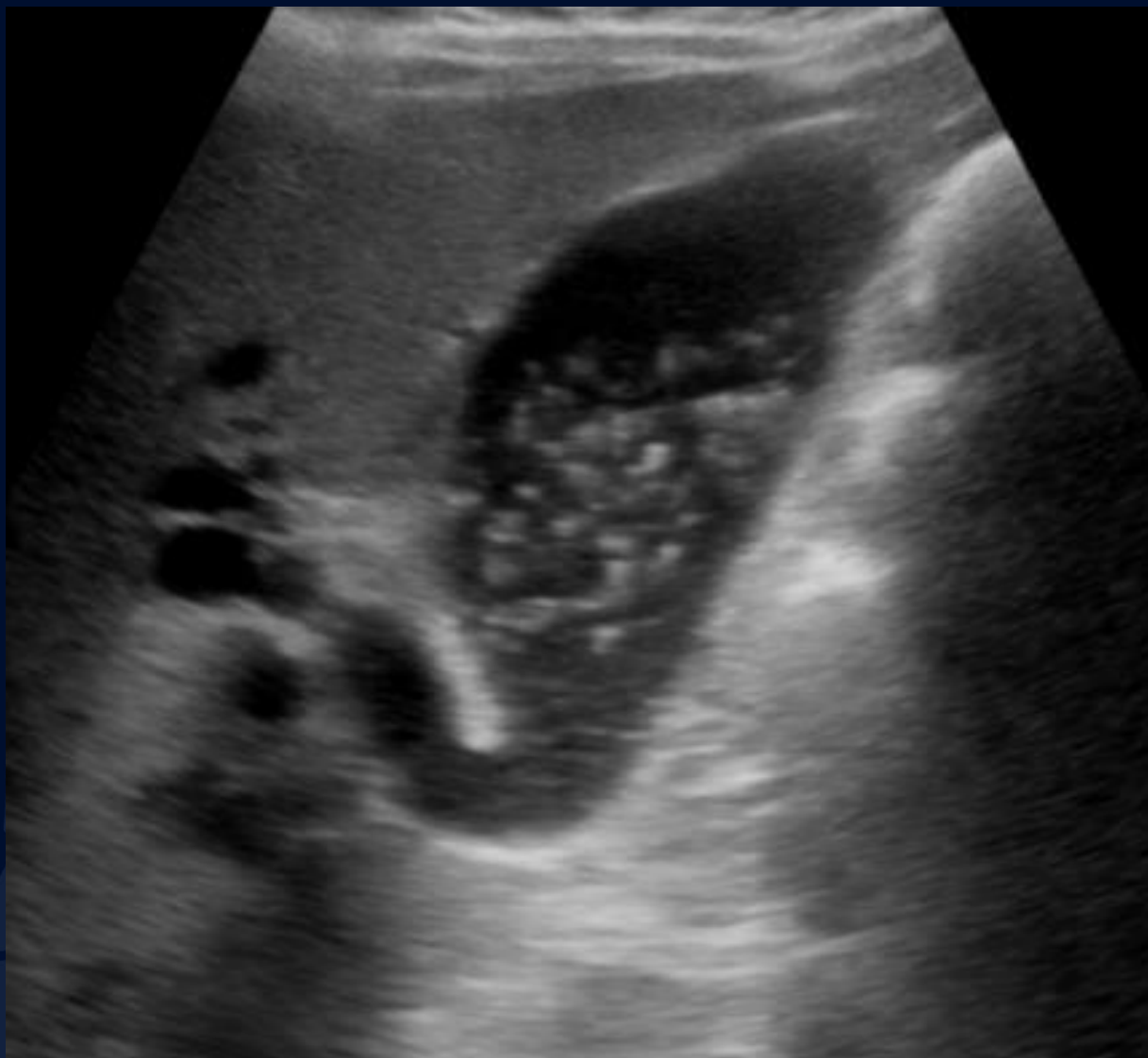


47-year-old female presenting
with unintended weight loss,
jaundice and abdominal fullness

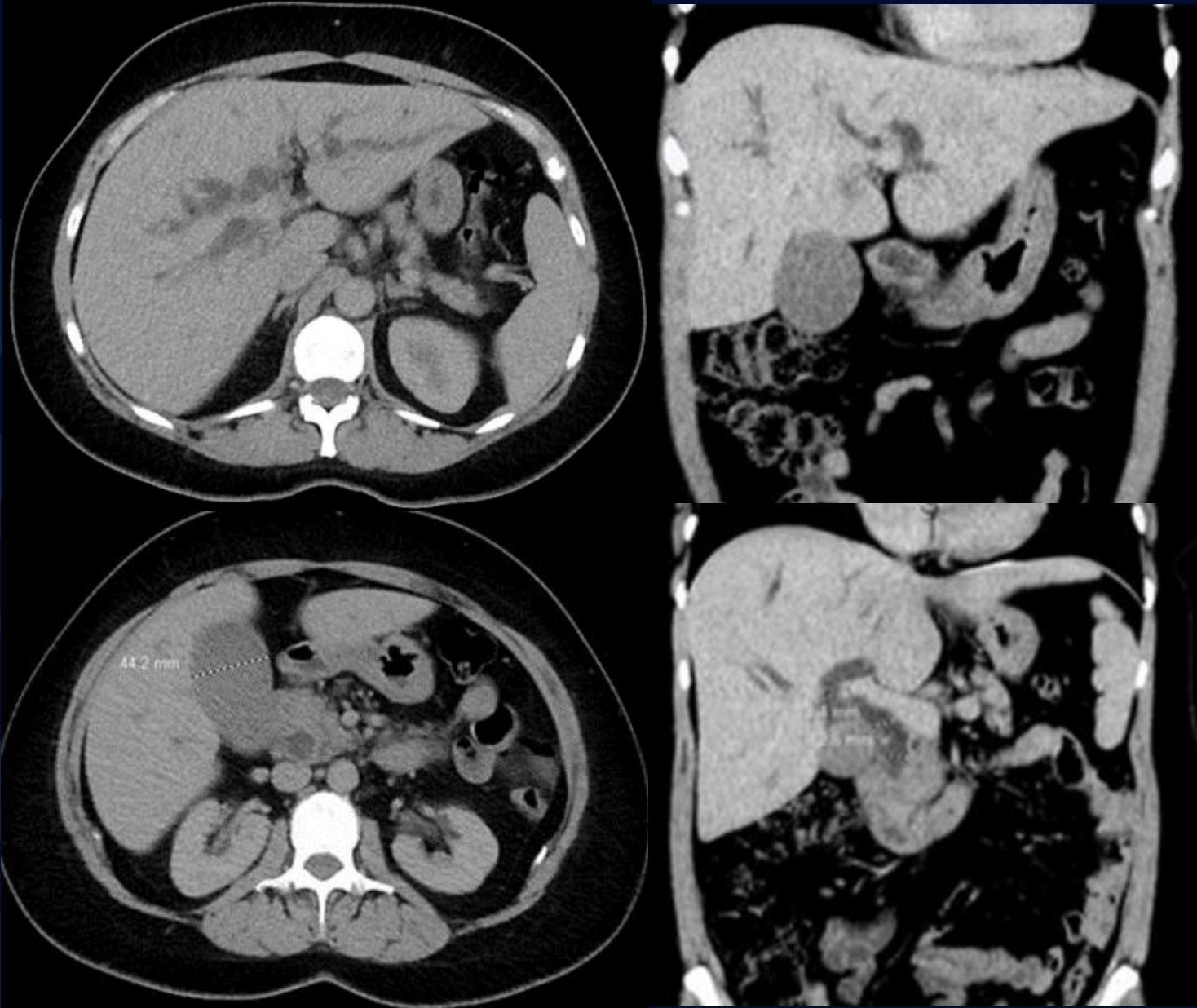
Gazal Gulati, MS3



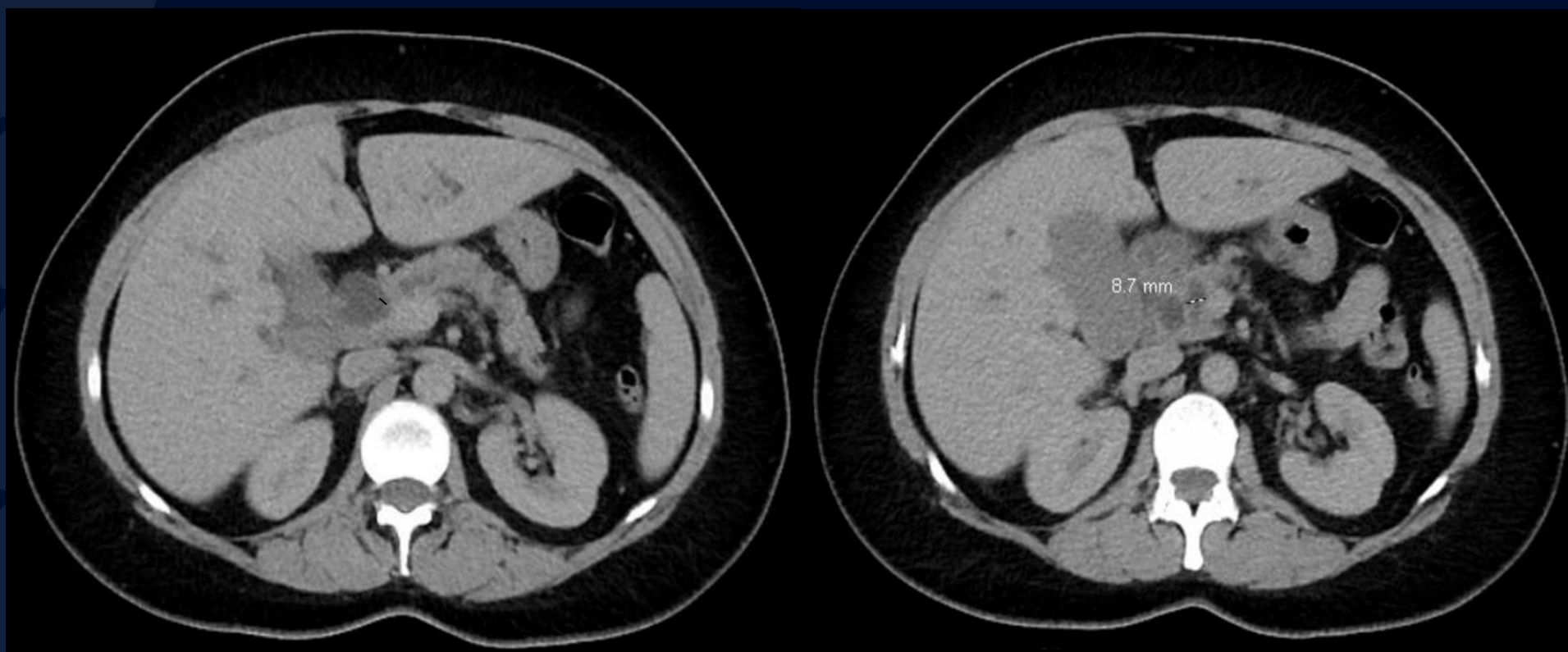
Right Upper Quadrant Ultrasound



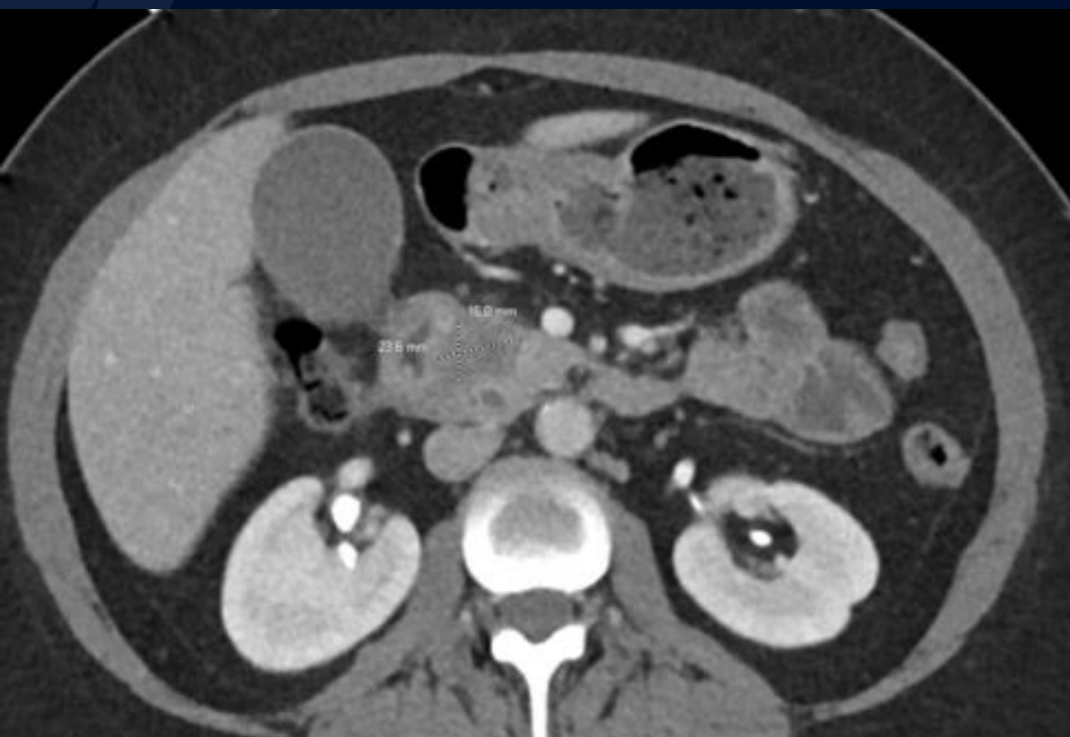
Right Upper Quadrant Ultrasound



Non-contrast CT



Non-contrast CT

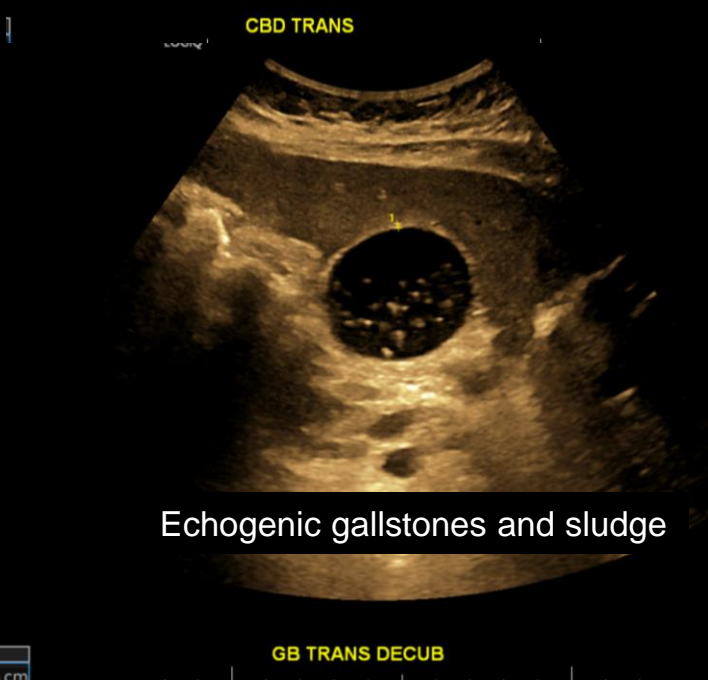
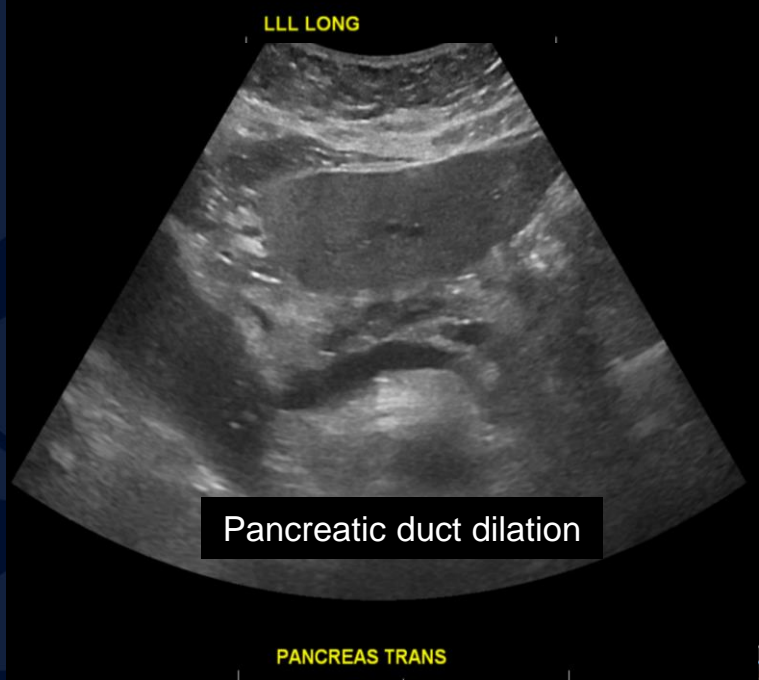
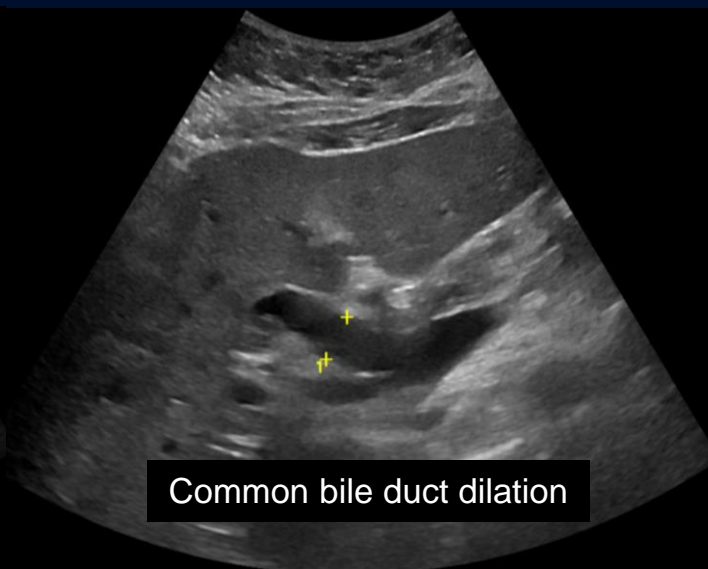
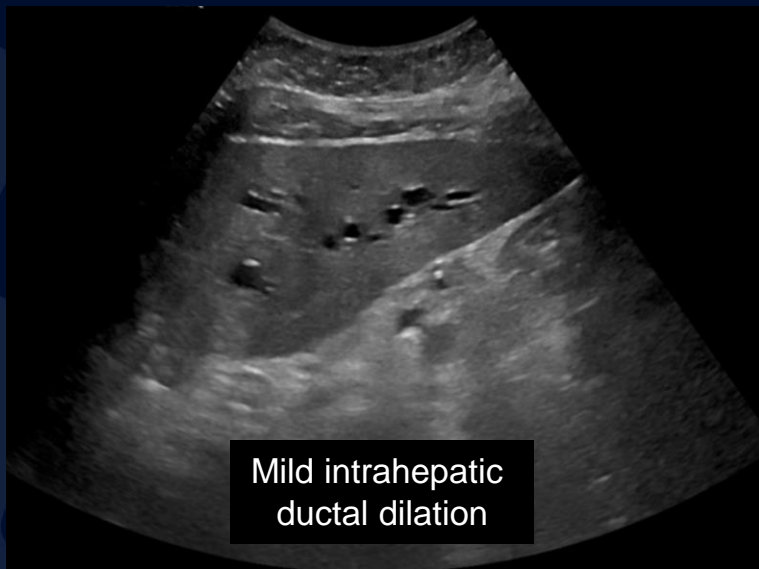


CT with Contrast

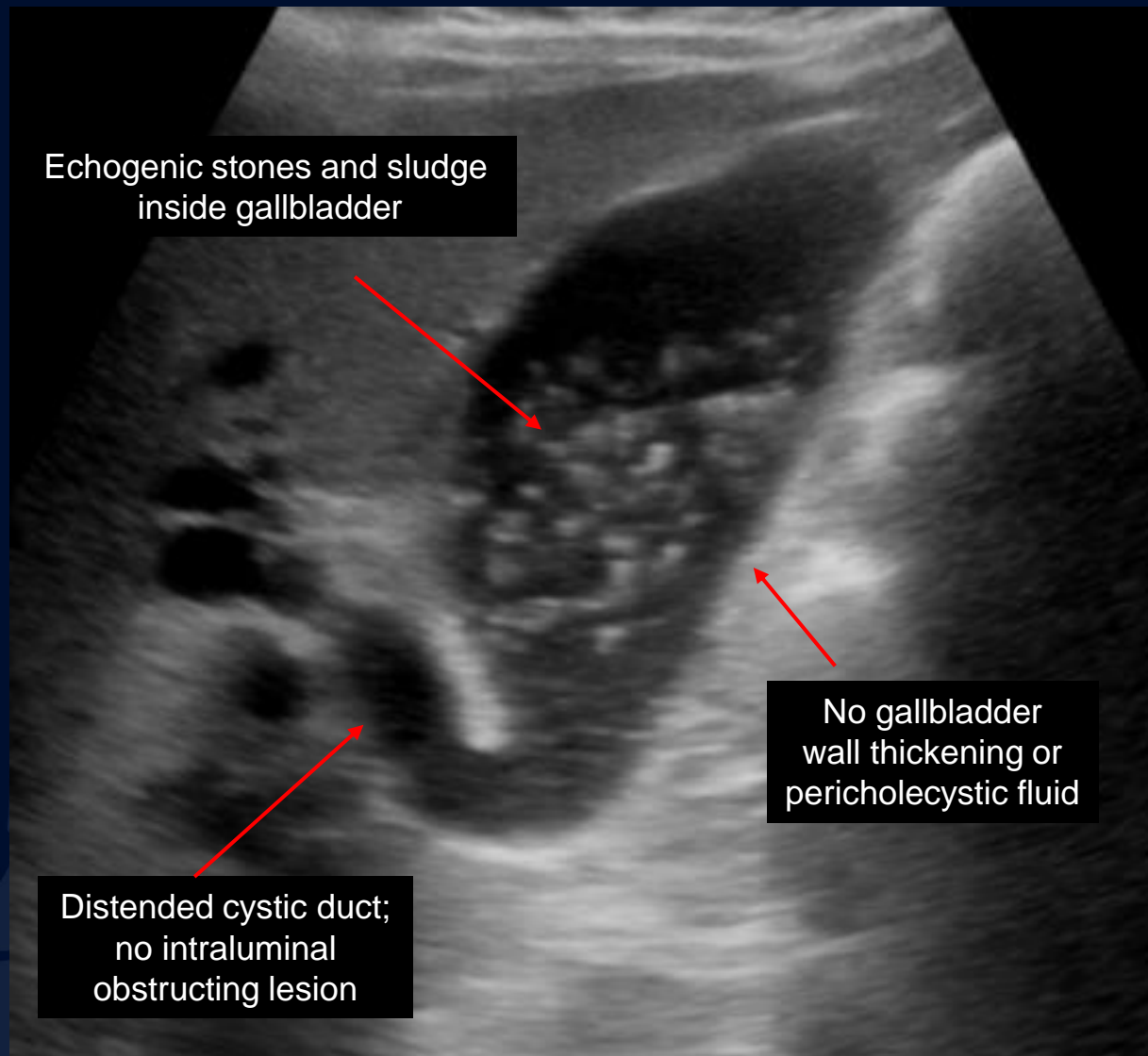


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Pancreatic Adenocarcinoma

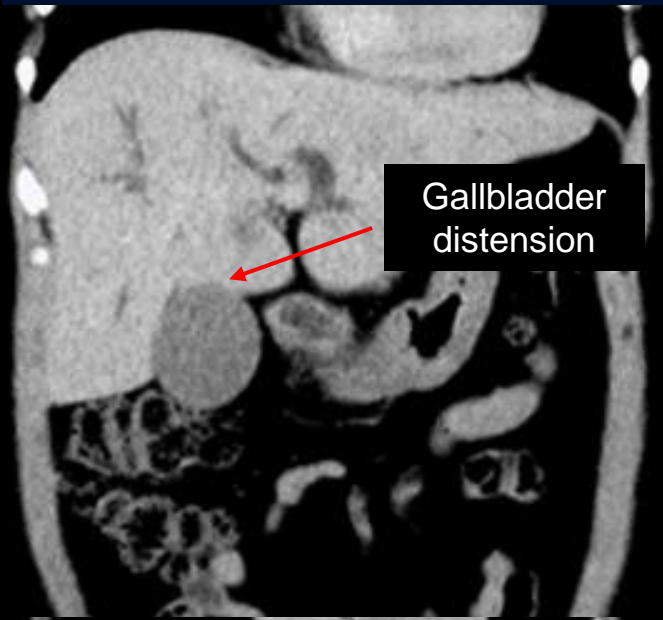
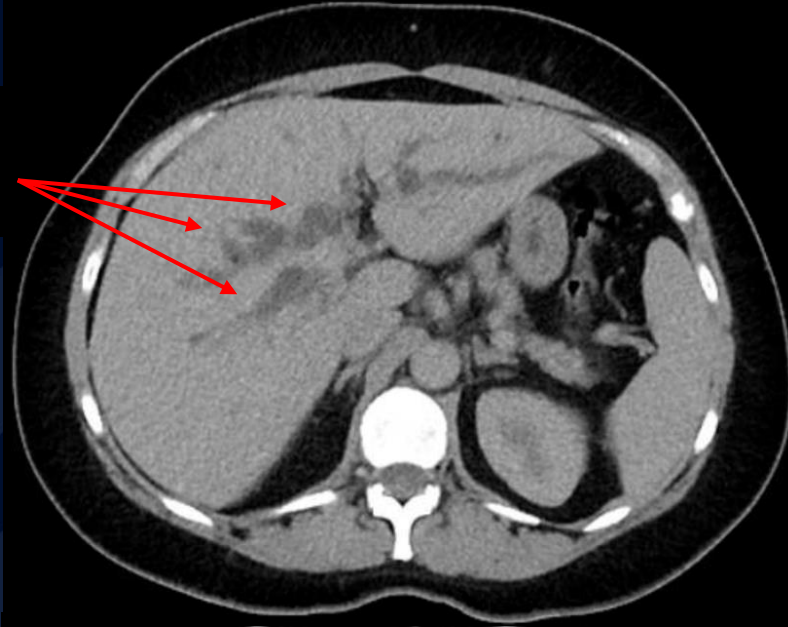


Right Upper Quadrant Ultrasound

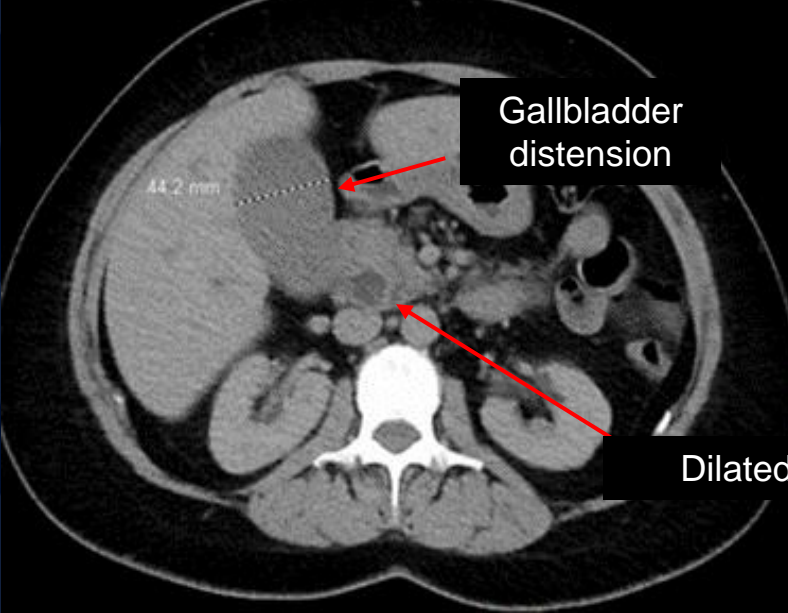


Right Upper Quadrant Ultrasound

Intrahepatic
biliary ductal
dilation



Gallbladder
distension

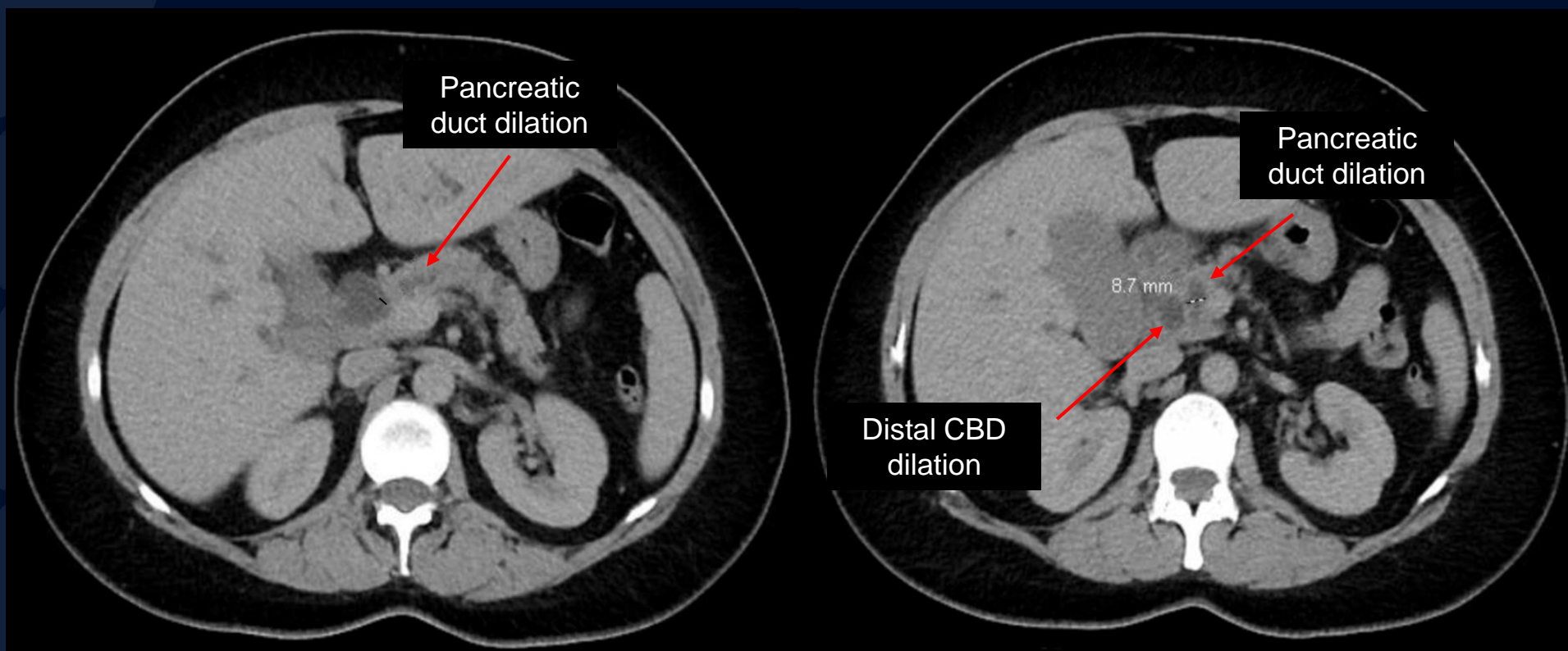


Gallbladder
distension

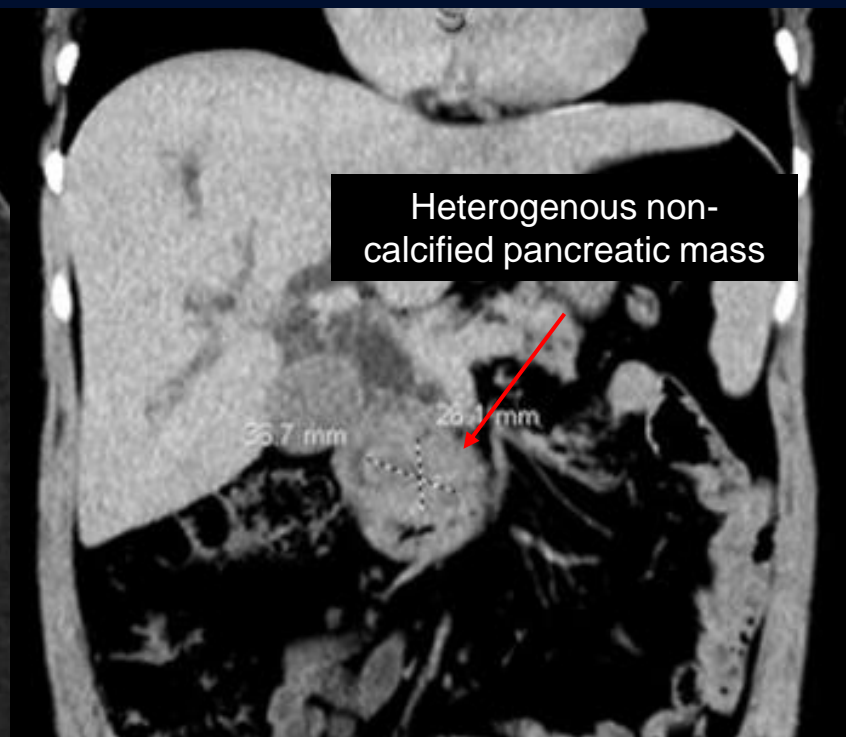
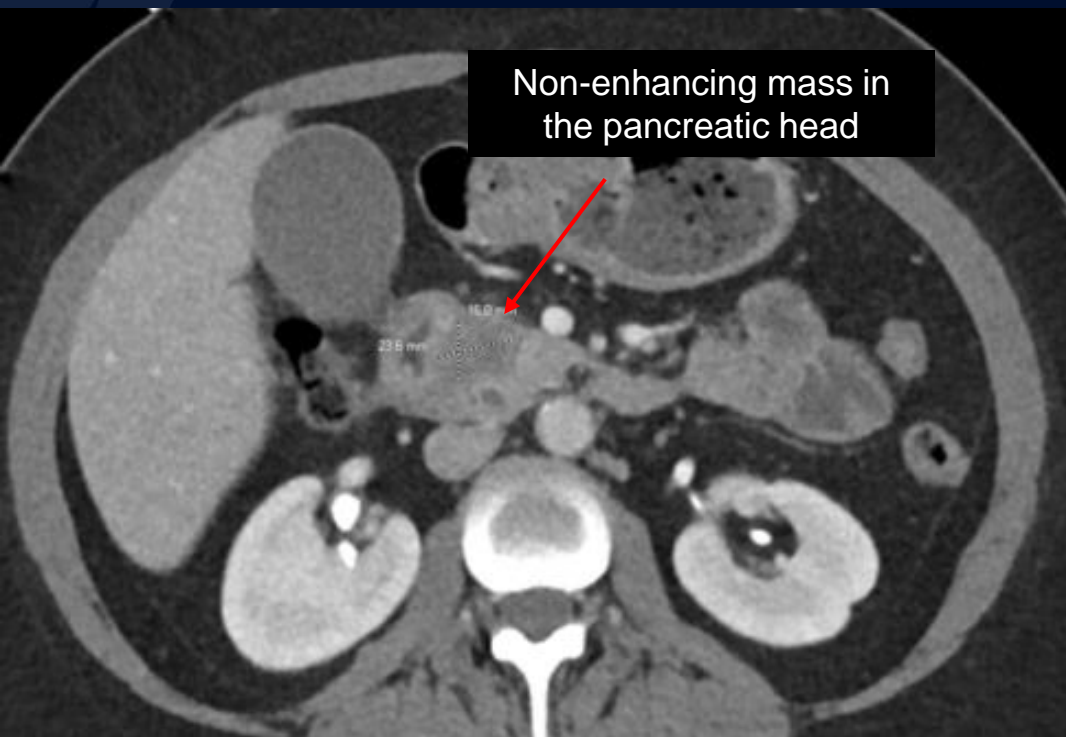
Dilated CBD



Non-contrast CT



Non-contrast CT



CT with Contrast

Pancreatic Adenocarcinoma

Malignant tumor of pancreatic exocrine cells

- ~85% of all pancreatic neoplasms, ~60% occur in the pancreatic head
- Risk factors include diabetes, obesity, smoking, heavy alcohol consumption, familial history, occupational hazards, chronic pancreatitis
- Often sporadic
- Syndromes associated with increased risk of pancreatic cancer
 - Peutz-Jeghers syndrome, familial malignant melanoma syndrome, Lynch syndrome, Breast-ovarian cancer syndrome and Li-Fraumeni syndrome

Presentation

- Asymptomatic jaundice, steatorrhea, unintended weight loss, abdominal mass, insidious onset of 'gnawing' epigastric pain

Diagnostics

- Labs
 - AST / ALT, alkaline phosphatase, bilirubin, serum lipase, CA-19-9 tumor marker
- Imaging
 - Endoscopic ultrasound is the diagnostic method of choice for pancreatic head tumors; allows nonsurgical biopsy of tumor and nearby lymph nodes.
 - Multiphase CT is used for tumors that are difficult to assess by endoscopic US; evaluates for distant metastases
 - Multiphase MR +/- MRCP similar accuracy as contrast enhanced CT for local disease staging; high sensitivity for detection of small liver metastases
 - Transabdominal ultrasound has ~95% sensitivity for tumors > 3 cm but significantly less for smaller tumors
 - ERCP used for visualization of the biliary tree and pancreatic duct

References

- https://www-uptodate-com.online.uchc.edu/contents/clinical-manifestations-diagnosis-and-staging-of-exocrine-pancreatic-cancer?search=pancreatic%20cancer&source=search_result&selectedTitle=1~150&usage_type=default&display_rank=1#H158746981
- <https://pubmed.ncbi.nlm.nih.gov/29038855/>
- https://www-visualdx-com.online.uchc.edu/visualdx/diagnosis/pancreatic-carcinoma?pt=UTD_53548&tk=r0ewgW5IXPStSYYr1PsHQwcTab9ye2bPMZOjHINIBQU%3D&moduleId=101&diagnosisId=55440#view=images
- <https://app.statdx.com/document/pancreatic-adenocarcinoma/42265d10-dd49-422f-9d63-149a3edccf3f?term=Pancreatic%20Adenocarcinoma&searchType=documents&category=All>