

Surgery of the Pancreas

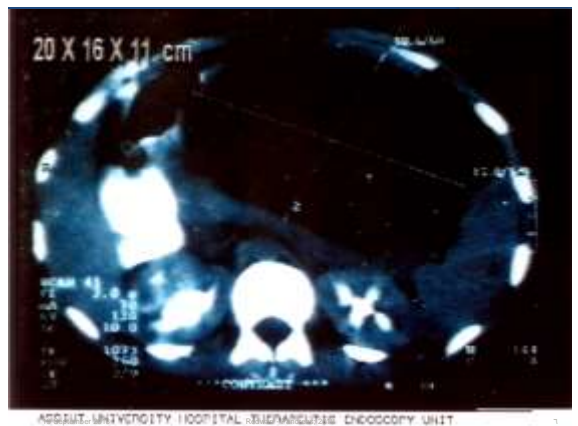
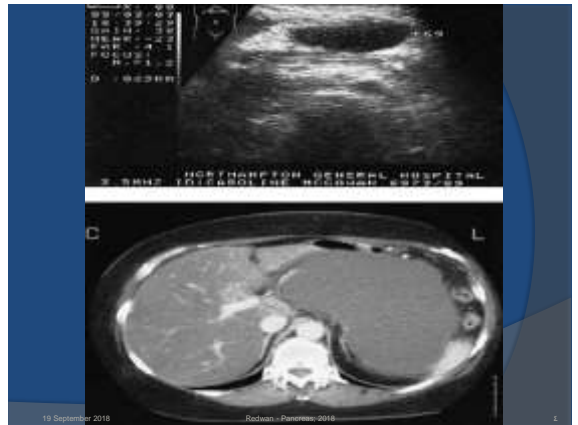
By
Dr: Alaa A. Redwan M.D, Ph.D
Prof. of Surgery & Laparoendoscopy

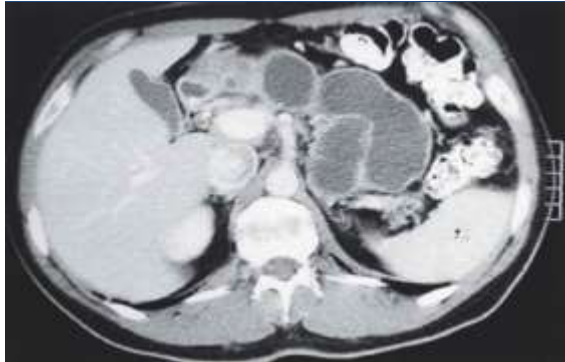
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Pancreatic Pseudocyst

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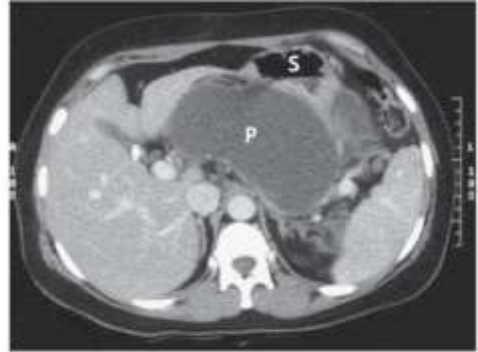


Extensive pseudocyst disease. A computed tomographic scan in a patient with alcoholic chronic pancreatitis demonstrates multiloculated pseudocyst disease.

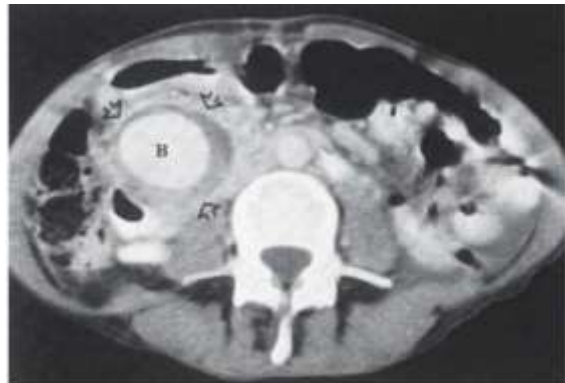
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A CT scan of a pancreatic pseudocyst located in the lesser sac. (P = pseudocyst; S = stomach.)



Pseudoaneurysm of the gastroduodenal artery. A pseudocyst can encase into an adjacent artery, which results in contained hemorrhage otherwise known as a pseudoaneurysm. A contrast-injected computed tomographic scan reveals active bleeding (B) into a pseudocyst (arrow) as a result of

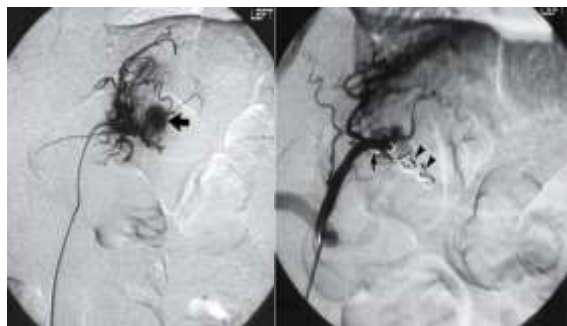
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A contrast-enhanced scan showing the medial and posterior poles of a pseudoaneurysm related to the splenic artery.

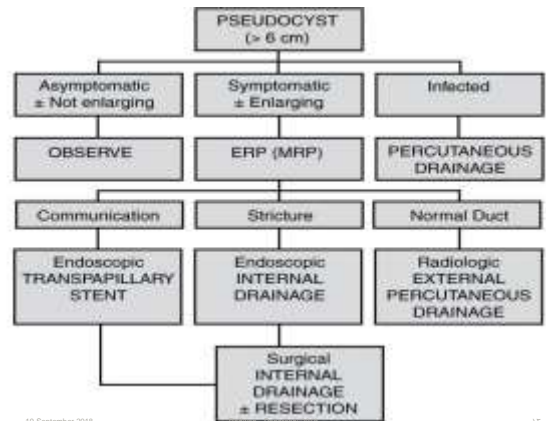


Selective mesenteric angiogram showing a pseudoaneurysm related to the left gastric artery (A) and successful embolization (B).

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Table 37-3. The Treatment Approaches for Pancreatic Pseudocyst

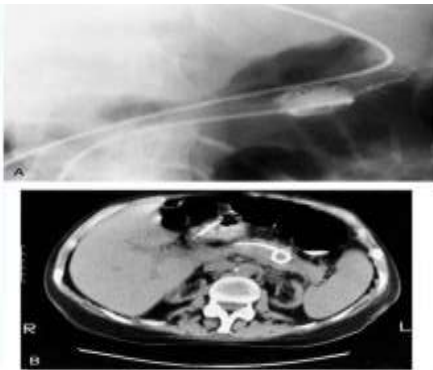
Approaches	Examples
Open surgical	Cystogastrostomy
	Cystoduodenostomy
	Roux-en-Y cystojejunostomy
	Distal pancreatectomy + splenectomy
	External drainage
Laparoscopic	Cystogastrostomy
	Cystoduodenostomy
	Roux-en-Y cystojejunostomy
	Distal pancreatectomy + splenectomy
	External drainage
Radiologic	Percutaneous drainage
	Percutaneous transgastric drainage
Endoscopic	Transpapillary pancreatic duct stent
	Transgastric stent
	Transduodenal stent

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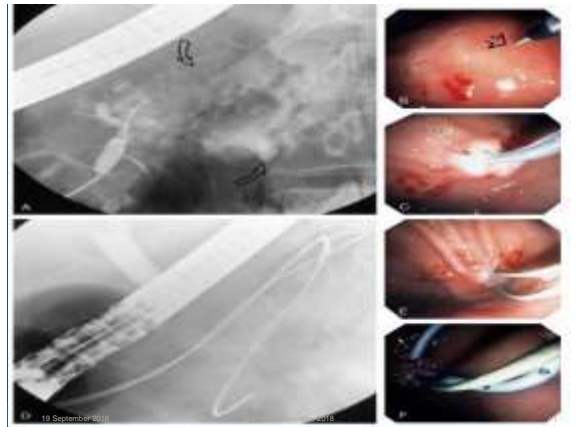
Transpapillary drainage of a pancreatic pseudocyst. A, Endoscopic passage of a flexible wire through the major papilla, through the pancreatic duct, and into a communicating pseudocyst. B, Placement of a stent over the wire into the pseudocyst with transpapillary drainage.



A, Haeropancreatic drain is placed in a small pseudocyst in the proximal pancreatic duct. B, Computed tomography (CT) scan shows the drain and resolution of the pseudocyst. This renal transplant patient had a 3-month history of persistent pancreatitis despite hyperalimentation.

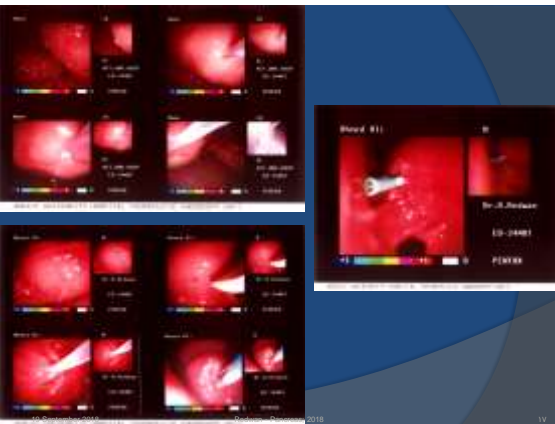
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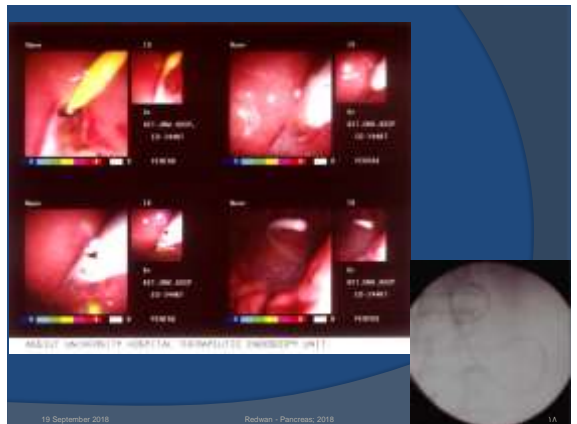
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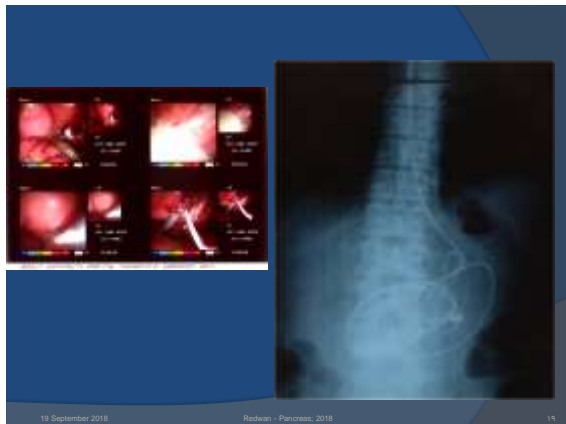
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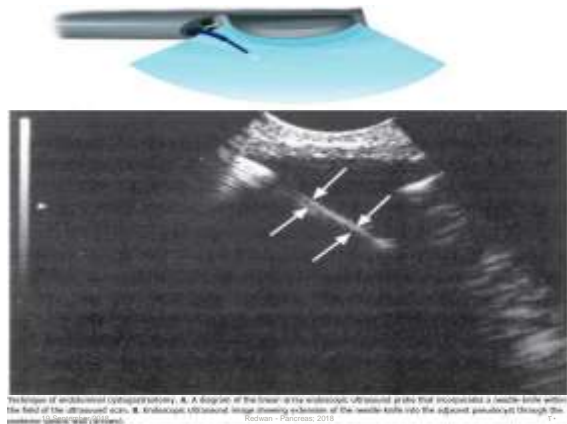
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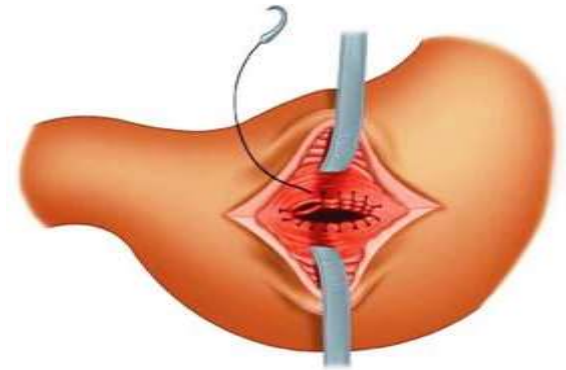
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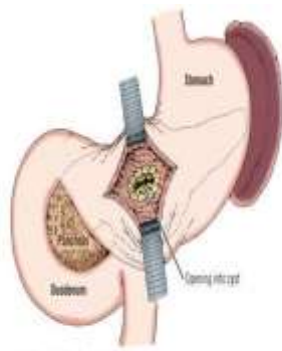
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The technique of endoscopic ultrasound-guided drainage. A. A diagram of the linear EUS endoscopic ultrasound probe that incorporated a needle-knife within the head of the ultrasound scan. B. Endoscopic ultrasound image showing insertion of the needle-knife into the adjacent pseudocyst through the anterior duodenal wall (yellow).

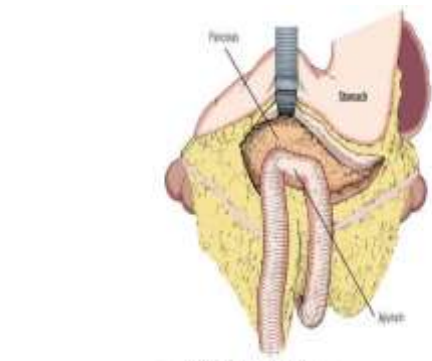


Cystogastrostomy drainage of a retrogastric pancreatic pseudocyst. A larger opening is made through the common wall of a retrogastric



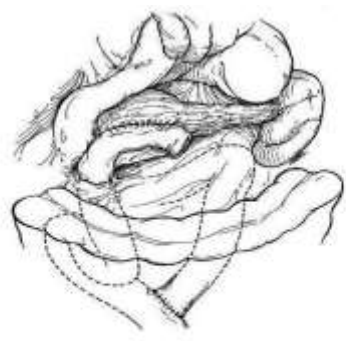
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Cystogastrostomy. (Revised from Skandalakis K, Gray SA, Rowe JB: Anatomical Complications in General Surgery. New York: McGraw-Hill, 1981, with permission.)

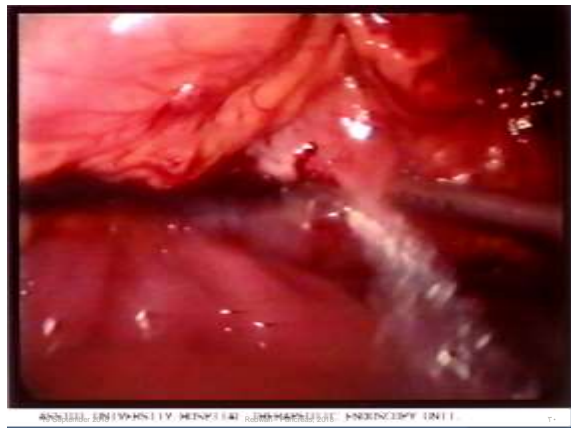
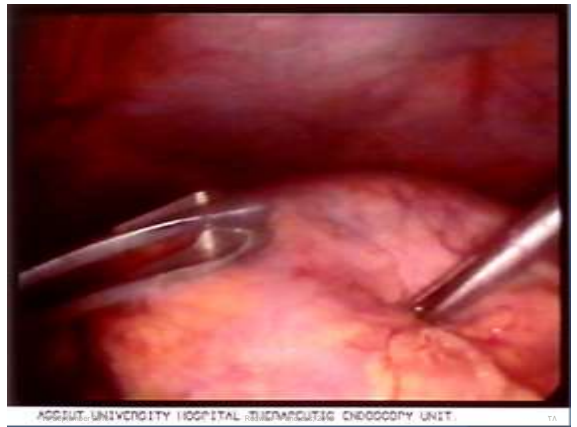
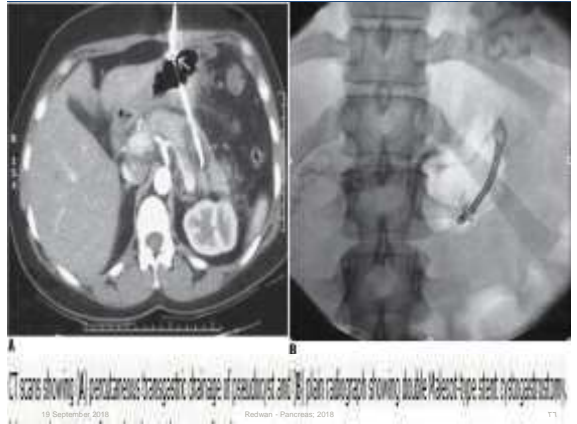
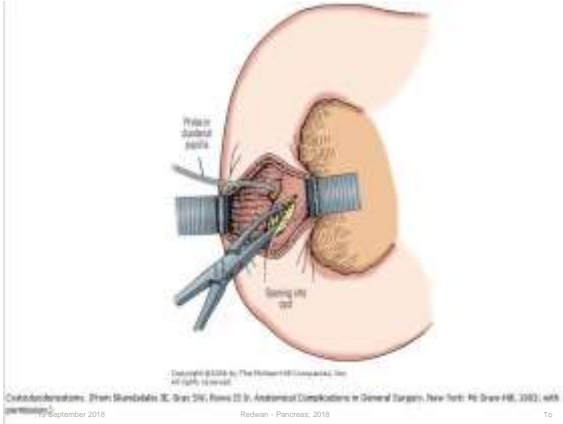


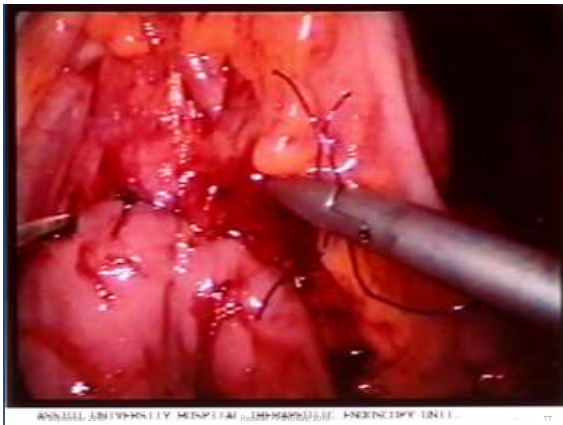
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Cystojejunostomy. (Revised from Skandalakis K, Gray SA, Rowe JB: Anatomical Complications in General Surgery. New York: McGraw-Hill, 1981, with permission.)



Internal drainage of a pseudocyst to the jejunum (Roux-en-Y cystojejunostomy).





Hand-assisted laparoscopic cystogastrostomy for mature pancreatic pseudocyst: (A) stapling of walls of the

