

A Multidisciplinary Approach to Pancreatic Cancer

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A Multidisciplinary Approach to Pancreatic Cancer





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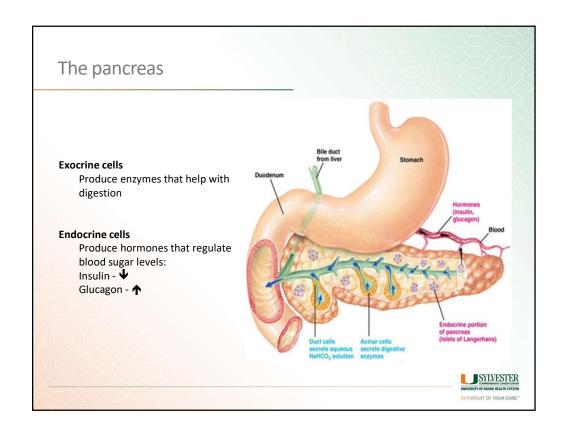
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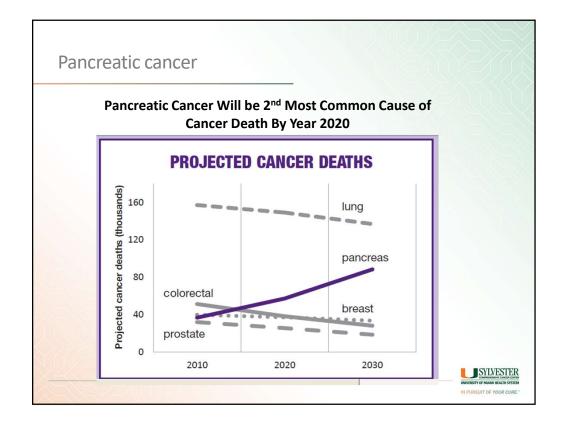
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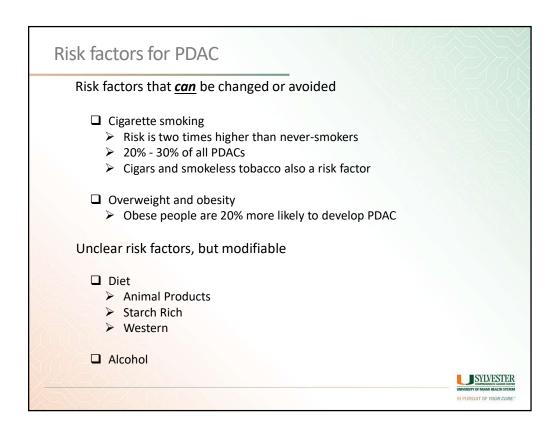
Agenda	
Agenda	
☐ Introduction	
☐ Patient presentation — localized pancreatic cancer ➤ Diagnostic tests	
Multidisciplinary treatment	
 □ Patient presentation – metastatic pancreatic cancer ➤ Genetic testing for the patient and the tumor ➤ Multidisciplinary management ➤ Clinical trial participation 	
☐ Family members of patients with pancreatic cancer ➤ Screening for high-risk individuals	
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Introduction



Pancreatic cancer begins when abnormal cells within the pancreas grow out of control and form a tumor ☐ More than 95% of pancreatic cancers are exocrine tumors also called Pancreatic Ductal AdenoCarcinoma (PDAC) ☐ Pancreatic neuroendocrine tumors (PNETs) account for less than 5% of all pancreatic tumors. These can have a very benign or a very malignant behavior but most are indolent / slow growing





Risk factors for PDAC

Risk factors that cannot be changed or avoided

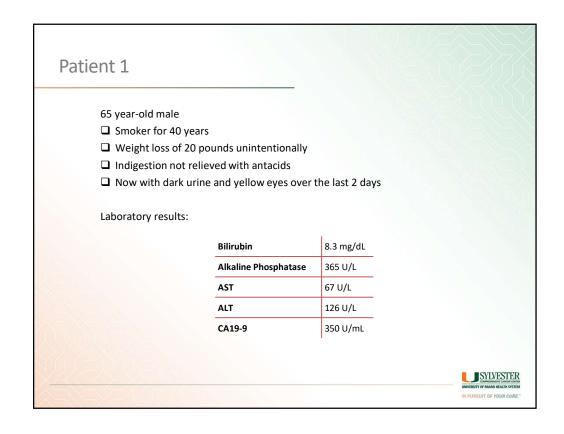
- ☐ Family history
- Diabetes
 - ➤ Most risk with Type 2 diabetes adult onset
 - > Maybe related to being overweight or obese
 - Unclear if risk with Type 1 (juvenile) diabetes
- Chronic pancreatitis
 - Long-term inflammation of the pancreas (especially in smokers)
 - Most people with pancreatitis never develop PDAC

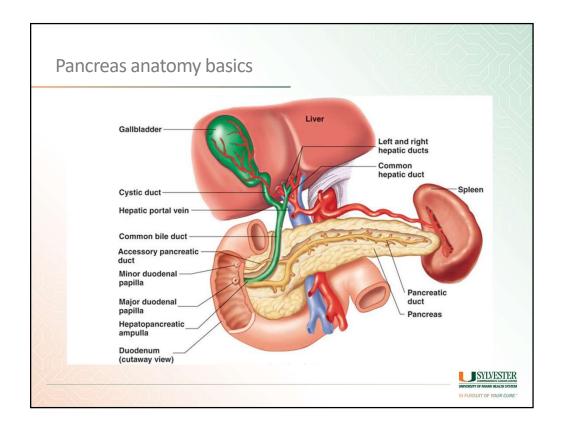


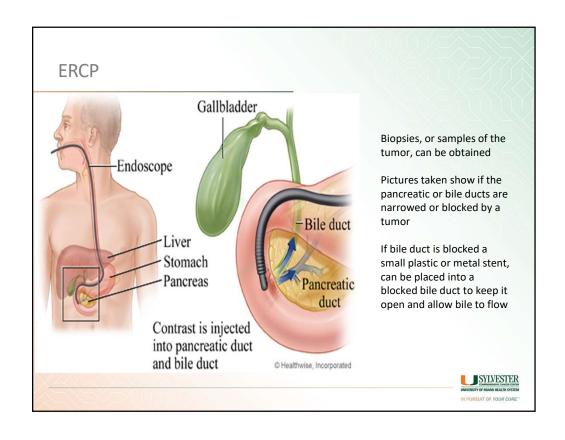
Patient presentation:

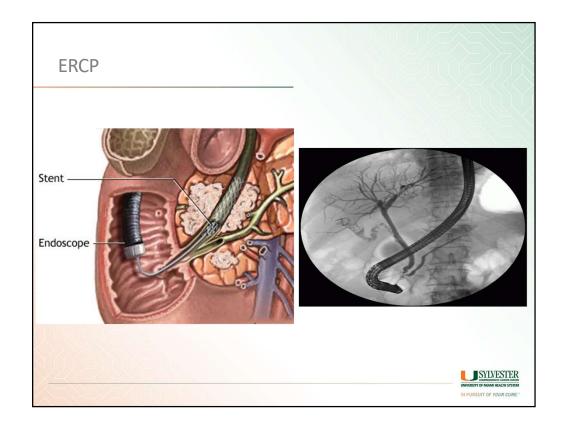
Localized pancreatic cancer











EUS

- ☐ Detailed ultrasound pictures of the pancreas, bile duct and digestive tract
- ☐ Allows determination of:
 - Size and location of a tumor in the pancreas
 - > Tumor spread to nearby lymph nodes
 - Invasion of nearby blood vessels
- Main use is to obtain a biopsy fine-needle aspiration (FNA) or fine-needle biopsy (FNB)
- Also used for celiac plexus block (a type of nerve block) for pain relief







Pancreatic protocol CT scan

☐ CT scans are used to:

- > Detect the presence of a tumor
- Determine the size and location of a tumor
- Determine if the tumor has metastasized, or spread to other tissues
- See the relationship of the tumor to surrounding blood vessels
- Guide a biopsy
- Help plan for surgery or radiation therapy
- Determine whether the tumor is responding to treatment

□ Pancreatic protocol CT scan

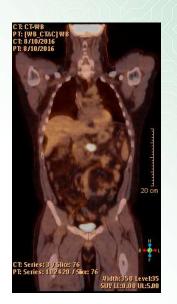
This is a special technique of doing the scan with "thin slices" through the pancreas to get better resolution pictures of the tumor and the blood vessels





PET/CT scan

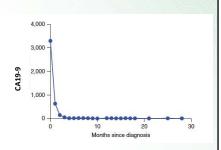
- ☐ PET/CT scanning combines two imaging tests into one procedure
- ☐ Images detect tissues that are using more glucose
 - Cancer cells use glucose at a faster rate than normal cells
 - Pancreatitis, infections, surgeries, and other diseases may change the way cells use glucose
 - Could produce false-positive results
- ☐ A PET/CT is not a substitute for a high-quality, contrast-enhanced pancreas protocol CT scan





Serum CA19-9 level

- ☐ CA 19-9 is a protein released by pancreatic tumor cells and measured in blood
- ☐ Elevated in many patients with pancreatic cancer can be used to track the response to treatment or raise suspicion for relapse
- ☐ About 15% do not secrete these antigens level can be normal even with PDAC
- ☐ Many conditions can cause elevation of CA 19-9
 - Other cancers
 - Jaundice
 - Pancreatitis
 - Cirrhosis
- ☐ Cannot be used as a screening or diagnostic test for PDAC





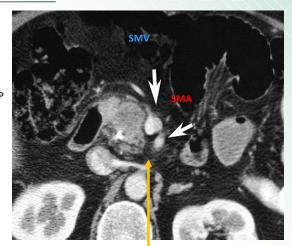
Back to patient 1

ERCP - placement of a stent in the distal common bile duct

EUS - 1.5cm mass in the head of the pancreas; biopsy - adenocarcinoma

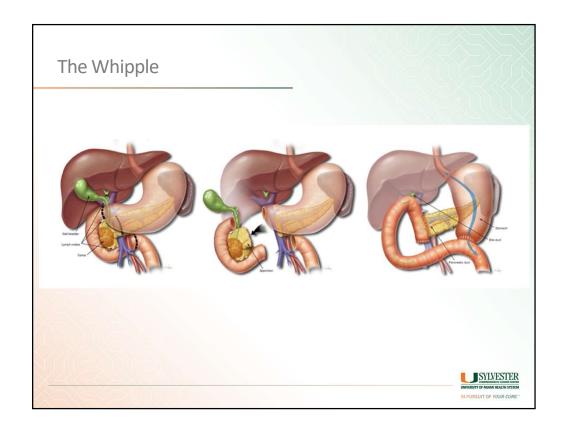
Pancreatic protocol CT - done after the ERCP and shows the stent. This scan also confirmed that there was no interface between the tumor and the super mesenteric artery or vein

There were no visible lymph nodes or other metastases seen on the CT scan.

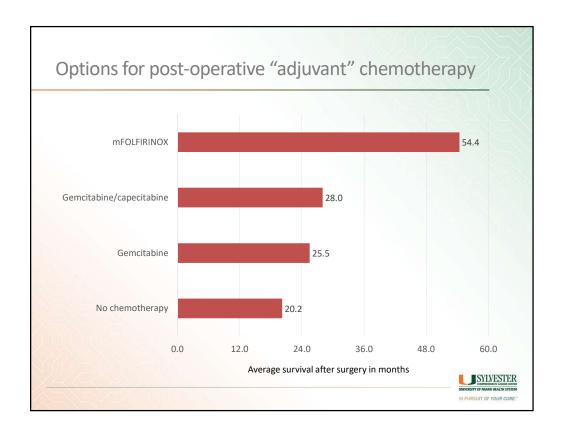


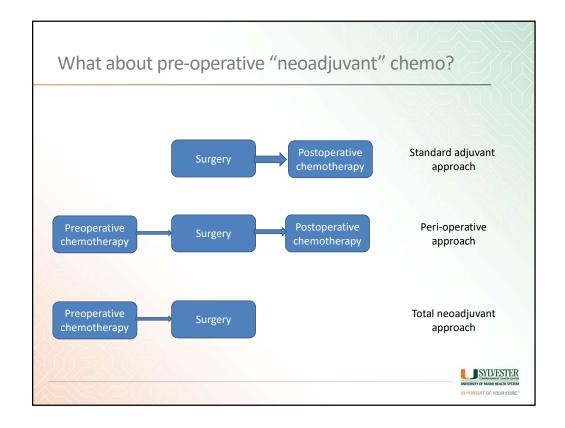
Retroperitoneal Margin

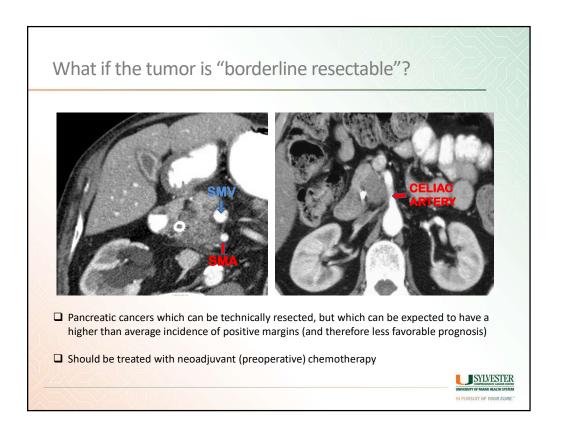


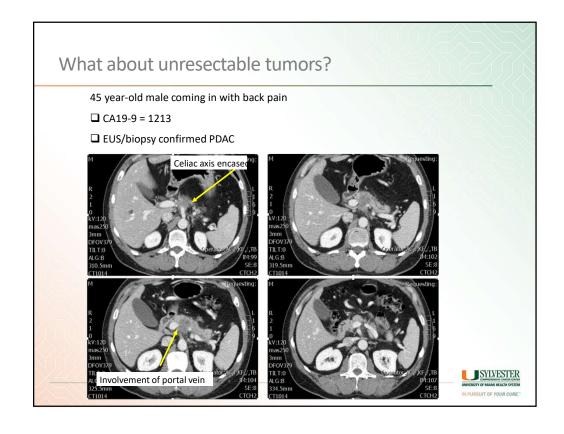


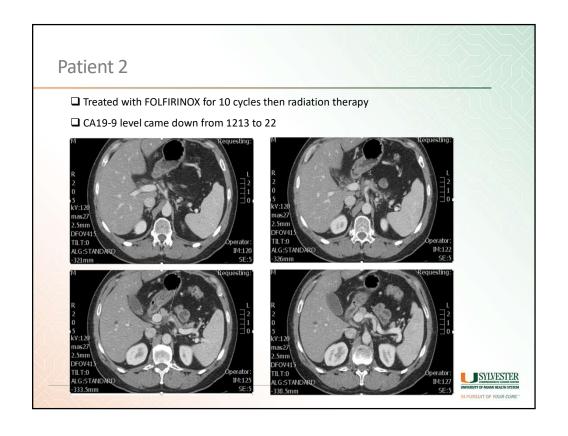
Patient 1 Pathology Result The patient underwent a whipple procedure (pancreaticoduodenectomy) The tumor was 1.8cm in size All the resection margins were negative (clean) All 22 lymph nodes resected were negative The pathologic stage was T3 N0 (stage IIA) The patient was referred to medical oncology 4 weeks post-operatively

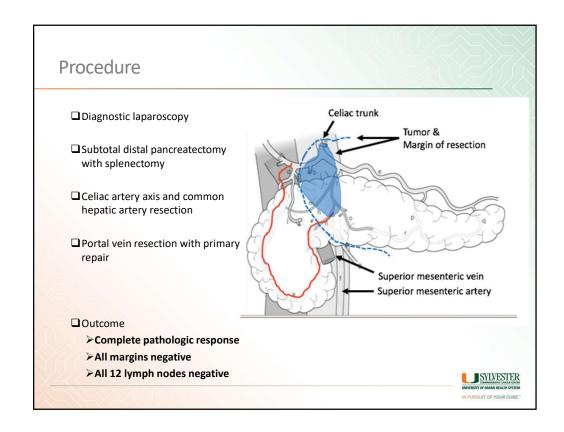


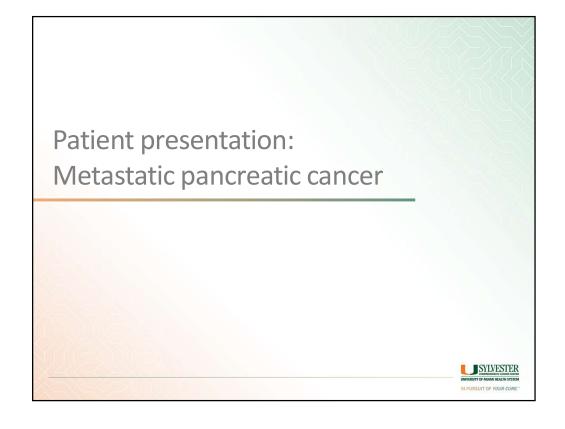












Patient 3

66 year-old male with worsening left upper abdominal pain. He went to his local emergency room where a CT scan was performed.

The CT showed a mass in the pancreas as well as liver lesions which were very suspicious for metastatic PDAC

CA19-9 level was 10, 824

A liver biopsy confirmed adenocarcinoma

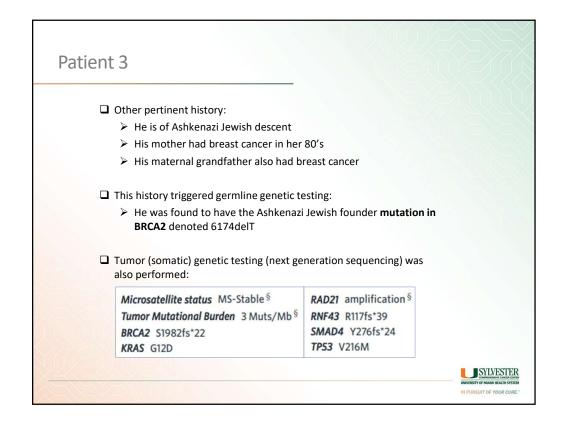


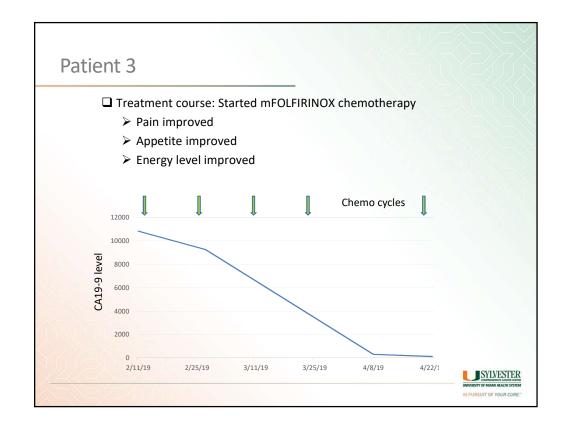


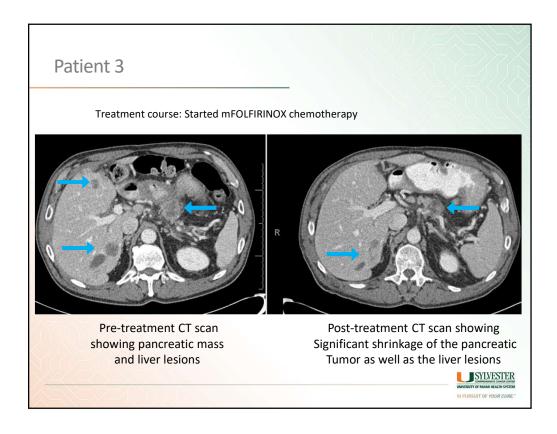
Symptom management in PDAC

- ☐ Patients with newly diagnosed metastatic PDAC usually are very symptomatic
- $oldsymbol{\square}$ Early referral to palliative care for symptom management is encouraged
- ☐ Common problems:
 - Cancer-related pain
 - ➤ Opioids and celiac plexus block
 - Weight loss
 - Consult an oncology dietician
 - > Start pancreatic enzyme replacement therapy
 - Depression
 - Consult a psychologist or psychiatriast









Chemotherapy selec	ction		
FOLFIRINOX		Gemcitabine/Abraxane	
Three	Chemo drugs	Two	
Every 2 weeks	Schedule	Three weeks on and one week off	
4-6 hours on first day followed by a 2-day infusion pump	Duration	One hour infusion weekly	
Uncommon	Hair loss	Very common	
Common	Nausea	Uncommon	
Very frequent	Diarrhea	Uncommon	
Always	Cold sensitivity	Rare	
Common	Fatigue	Common	

Chemotherapy selection **FOLFIRINOX** Gemcitabine/Abraxane May be better in patients No biomarker with BRCA or other similar **Biomarker** gene mutations Can improve quality of life Can improve quality of life **Effectiveness** and prolong survival and prolong survival Can be given with dose and **Elderly/frail patients** Not recommended schedule modifications

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Screening for high-risk individuals



Who Should Have Germline Genetic Testing?

- ☐ Family history of pancreas cancer
- ☐ Young age at diagnosis of pancreas cancer
- ☐ Recent National Comprehensive Cancer Network guidelines
 - Consider for all patients with a personal history of pancreatic cancer <u>after</u> counselling
 - Clinical value still being determined
- ☐ Panel testing includes many cancer susceptibility genes
 - ➤ Identifies 1 or more so-called deleterious variants that are only weakly associated with cancer risk
 - ➤ Interpretation can be challenging for practitioners
 - Anxiety for patients



Inherited genetic syndromes and PDAC

- < 10% of PDACs
 - ☐ Hereditary breast and ovarian cancer syndrome BRCA1 or BRCA2 genes
 - ☐ Familial atypical multiple mole melanoma (FAMMM) syndrome -

p16/CDKN2A gene

- ☐ Familial pancreatitis -PRSS1 gene
- ☐ Lynch syndrome (Hereditary non-polyposis colorectal cancer) MLH1 or MSH2 genes
- ☐ Peutz-Jeghers syndrome STK11 gene
- Von Hippel-Lindau syndrome VHL gene



Who Gets Pancreas Screening?

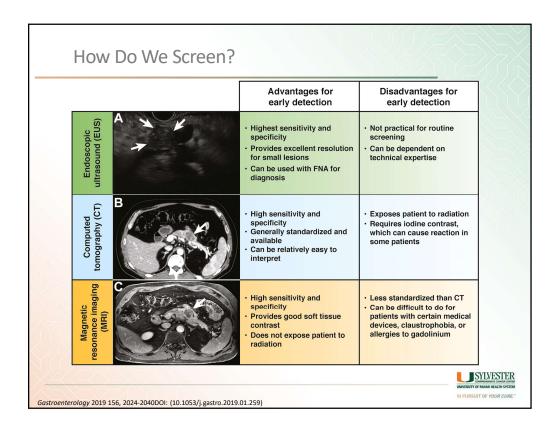
- ☐ Appropriate age
- ☐ Carriers of a germline mutation in a pancreatic cancer susceptibility gene
- ☐ Multiple blood relatives with pancreatic cancer
 - ➤ At least 1 first-degree and 1 second-degree relative with pancreatic cancer

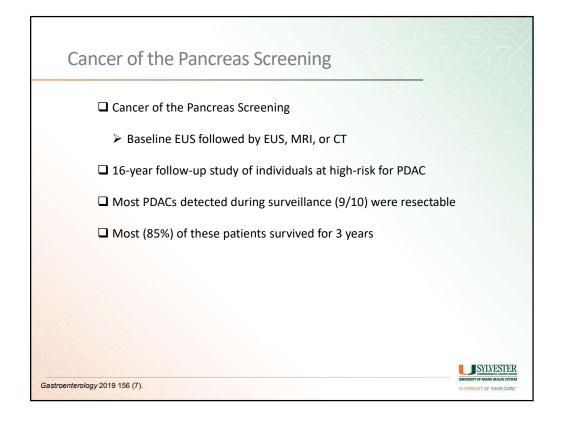
Who should be screened?

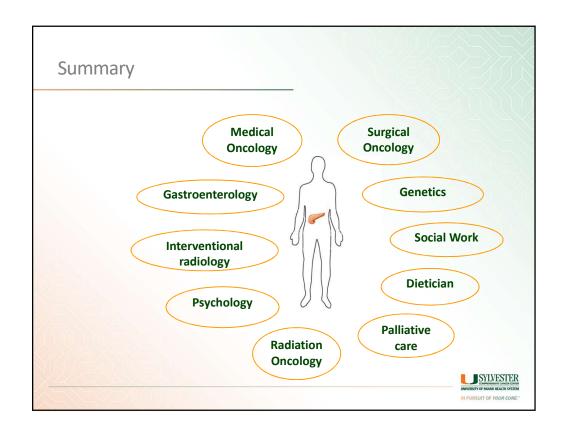
Statements

- Al Individuals with three or more affected blood relatives, with at least one affected FDR, should be considered for screening.
- A2 Individuals with at least two affected FDRs with PC, with at least one affected FDR, should be considered for screening once they reach a certain age.
- A3 Individuals with two or more affected blood relatives with PC, with at least one affected FDR, should be considered for screening.
- A4 All patients with Peutz-Jeghers syndrome should be screened, regardless of family history of PC.
- A5 p16 carriers with one affected FDR should be considered for screening.
- A6 BRCA2 mutation carriers with one affected FDR should be considered for screening.
- A7 BRCA2 mutation carriers with two affected family members (no FDR) with PC should be considered for screening.
- A8 PALB2 mutation carriers with one affected FDR should be considered for screening.
- A9 Mismatch repair gene mutation carriers (Lynch syndrome) with one affected FDR should be considered for screening.

Canto M. International Cancer of the Pancreas Screening (CAPS) Consortium summit on the management of patients with increased risk for familial pancreatic cancer. Gut. 2013.









Thank you for your participation.

If you have questions, please contact
Patient Central at
877-2-PANCAN or e-mail patientcentral@pancan.org.

www.pancan.org

PANCREATIC CANCER ACTION NETWORK