

Risk factors for pancreas cancer

Obesity: 20% more likely to have pancreas cancer

Smoking: risk twice as high as non smokers. 25% cancer patients have history of smoking

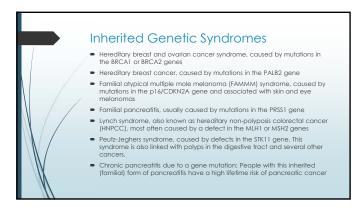
Diabetes: the reason is not understood but there is some correlation

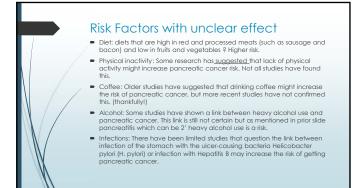
Chronic pancreatitis: which is a condition of inflammation of the pancreas

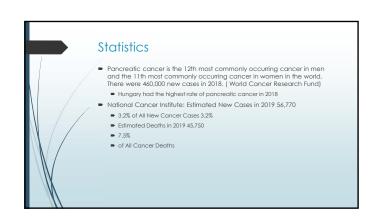
often but not always associated with heavy alcohol use and smoking

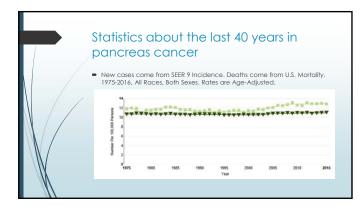
Work exposure: Heavy exposure at work to certain chemicals used in the dry cleaning and metal working industries

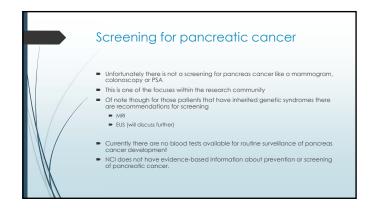




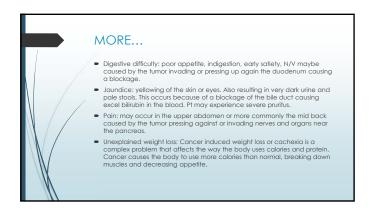


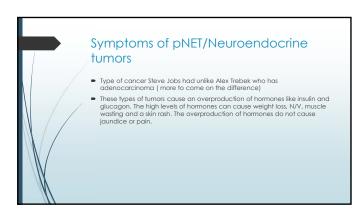


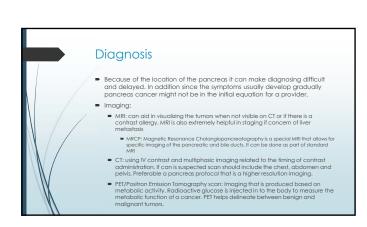


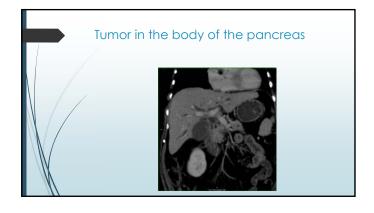


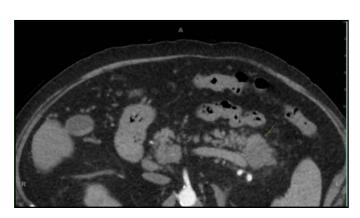
Symptoms of pancreatic cancer although it is called the silent disease because symptoms are rarely present in the early stages Ascites: abnormal fluid collection in the abdomen, usually representing advanced cancer Blood clots: DVT/deep vein thrombosis or PE. Cancer causes changes in the blood that can increase clotting. Changes in bowels: constipation, diarrhea or both. Diarrhea: loose, watery, oily, very foul smelling stook 2º lack of pancreas enzymes in system causing malabsorption of food and therefor passing quickly through the GI tract Constipation: often related to pain medications that are being used. Diabetes: sudden onset Type 2 cliabetes after the age of 50 and if have low BMI. Also if established cliabetic with well controlled blood sugars and a sudden change.

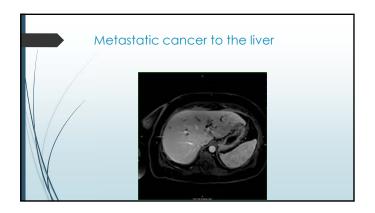


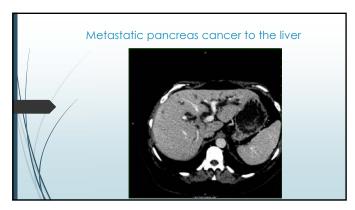


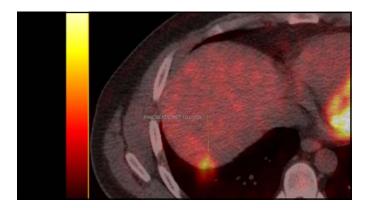


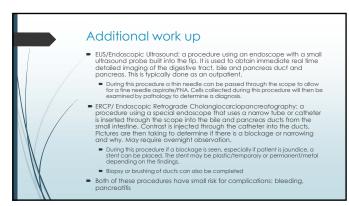


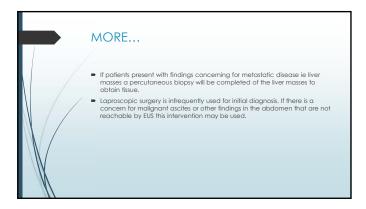


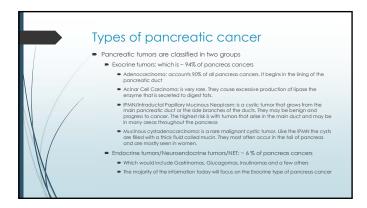


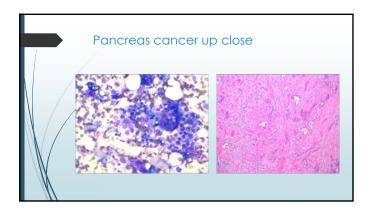


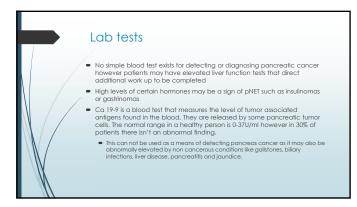




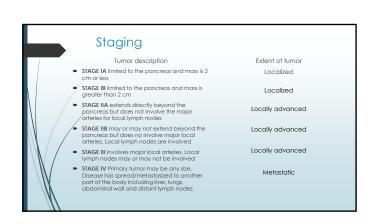


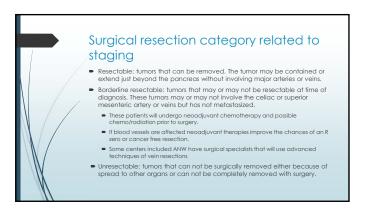


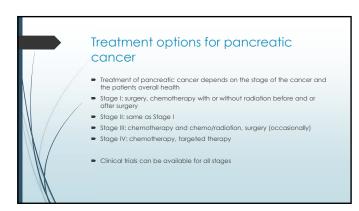


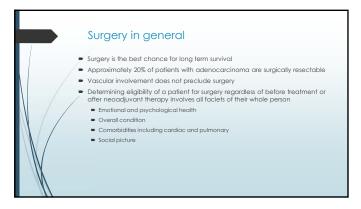


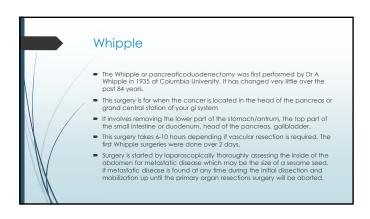
Genetic or germline testing Genetic testing looks for changes or mutations in genes that may have been inherited from the patients parents. If a mutation is found it may have options for additional targeted therapies for a mutation is found it may help determine the risk to other family members who may then have surveillance to monitor for cancer. Who should have genetic testing? Patients with a family history of cancers including melanoma, pancreas, colorectal, ovarian or breast cancer or digestive diseases. Additionally patients under 50 or of Asheknazi Jewish ancestry should be tested.

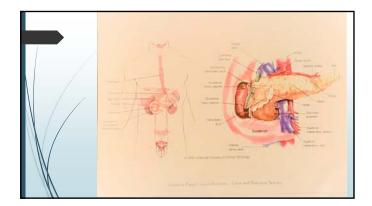


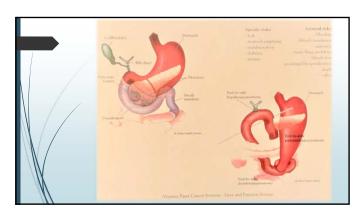








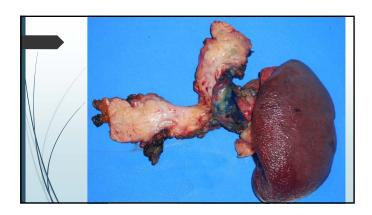




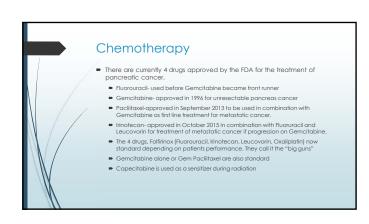




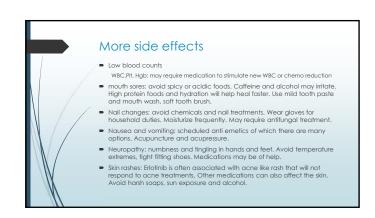
Distal pancreatecomy is when the tumor located in the body or tail of the pancrea's is removed. This surgery dos always entails the removal of the spieen. The spieen is attached to the fall of the pancreas and shares its blood supply. Vaccinations are given 2 weeks prior to surgery. These immunizations against encapsulated bacterial pathogens decrease the incidence of post-spienctomy septs. Pneumococcal, meningeococcal, and telemophilus influenzae (filb) vaccinations are the standard vaccinations. This surgery typically takes it the time of the Whipple The most common complication is the leakage of pancreatic justice.

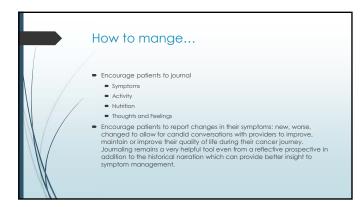


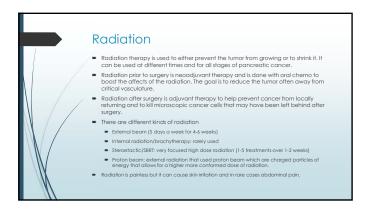
Other pancreas surgeries Total pancreatectomy: the removal of the entire pancreas. This is rarely done in the setting of cancer. You can live without your pancreas but will deal with severe diabetes and pancreatic insuffiency Laparoscopic or Robotic surgeries: these minimally invasive surgery techniques are not often used in the setting of pancreas cancer Palliative surgery: surgical interventions that are performed to alleviate symptoms like jaundice, N/V 2' duodenal obstruction. These procedures are typically bypass procedures rather than cancer resecting surgeries.



Side affects of chemotherapy and management Alteration in taste: food may taste bland or have metallic taste. Tart or bitter tasting food may help with metallic taste. Cold food often betted than hot. Constipation: drink plenty of fluids. Caffeine free is better. High fiber diet with moderate exercise Diarrhea: over the counter medications or if need prescription anti-diarrheals. Changes in nutrition may help improve Fatigue: some medications can help boost red blood cell production. Energy conservation and activity moderation. Hair loss/Alappecia: be gentle! Shampoo, drying and tools. Protect scalp when autiside. Hand/foot syndrome: redness, tenderness, peeling of palms and soles. May also be accompanied by numbness and tingling. Wear gloves/socks. Keep well moisturized. Loss of appetite: ear every couple of hours throughout the doy, Make it count for nutritional value. Medications are options to stimulate appetite.









Clinical trials

Allina active enrolling trials

PANCREATIC CANCER

Geistlich GP-2250 1001 Pancreas Cancer Study: Phase 1/2 trial of GP-2250 + gemcitabine in metastalic pancrealic cancer who have progressed on FOLHRINOX

University of Minnosta Tissue Procurement Study: Development of Oncolytic Adenovirus targeting cancer stem cells: Tissue procurement from pancreatic or esophageal cancer surgery, is naïve patients.

LAM 001-2018 ELIEF Protocol: Collection of bload from Healthy Patients, Patients with Benign Disease, and Patients with Cancer. LAM is only looking for patients with active disease at this time.

Clinicaltrials, gov is a service of the U.S. National Library of Medicine that provides access to anyone looking for additional information regarding clinical trials.

May 2019: Allina Health news release

Abbott Northwestern Hospital has enrolled the first human participant in a Priose I drug field for a medication to light pancreatic cancer. We are one of only two institutions in the world recurside by destitich Pharma of the Priose of the Prio

Nutrition(post surgery)

Eat a well balanced diet of frequent smalls. Goal for protein intake 60-80 grams daily to aid in healing and prevent muscle wasting

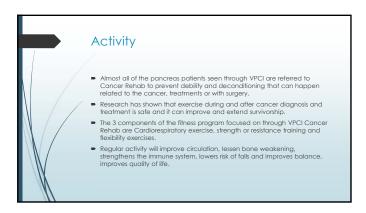
Stay hydrated but fluids should be taken in small amounts during or after meals to prevent filling quickly and feeling of fullness

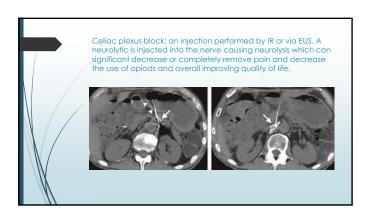
Light exercise can stimulate appetite and also increase the bodies need for calories.

Recommend not eating prior to sleeping to minimize possible heartburn.

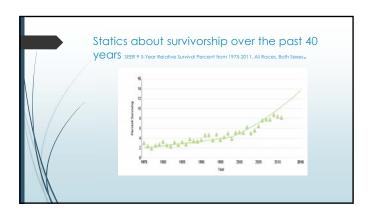
Enzymes to assist in digestion of fats may be required.

Insulin is sometimes needed at least during the initial post op recovery.









5-year Relative Survival Rate

(Rosed on people diagnosed with poncreatic concer between 2008 and 2014)

SEER Stage

(SEER - Surveillance, Epidemiology, and End Results)

Localized: 34%

Regional: 12%

Distant: 3%

All SEER stages combined: 9%



