UNIVERSITY OF MICHIGAN HEALTH



5th Annual Patient and Family Centered Care For Pancreatic Disease

Saturday, October 9, 2021

11:30 am - 2:30 pm • Virtual Meeting (due to Covid-19)

11:30 am	Welcome Matthew DiMagno, MD - Course Director	12:30 pm	Panel Discussion
11:40	MM Comprehensive Pancreas Program		Break
11.40	Updates Richard Kwon, MD	1:10	Genetic Causes of Pancreatic Diseases - Case-Based Discussions Elena Stoffel, MD, MPH
11:50	NPF Michigan Chapter Updates Robin Winke, LMSW		Tannaz Guivatchian, MD Andrea Murad, CGC
12:00 pm	Clinical Problem - Maldigestion Erik-Jan Wamsteker, MD	1:35	Keynote: GI Genetics Clinic Elena Stoffel, MD
12:05	Patient Testimony	2:00	Panel Discussion
12:15	Keynote: Dietary Management Amanda Lynett, MS, RD	2:25	Parting Comments
		2:30	Adjourn

Pre-registration required by October 1st, 2020



To Register https://michmed.org/L10vY





To Donate <u>https://michmed.org/xo12W</u>

Event Partners: AbbVie, Chiesi, Nestle and Vivus





OCTOBER 9, 2021

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About this Event

On October 9, 2021, Michigan Medicine and the National Pancreas Foundation Michigan Chapter will host the 5th Annual Patient and Family Centered Care for Pancreatic Diseases educational event. Due to the ongoing Covid-19 pandemic, we will host a virtual rather than an in-person program.

OCTOBER 9, 2021

Our patient and family education events serve as an opportunity to bring healthcare professionals and experts in pancreas disease in contact with patients and caregivers in an informal setting to enable the sharing of information on new developments in the treatment and care of pancreas disease.

The main goals are to increase understanding of the relationship between abnormal digestion and pancreatic diseases; ways to improve or maintain nutrition; genetic causes of pancreatitis, pancreatic insufficiency, and pancreatic cancer; and what happens during genetic counseling sessions. We will also discuss updates and resources available at the Michigan Medicine Comprehensive Pancreas Program and the National Pancreas Foundation (NPF) Michigan Chapter.

<u>Amanda Lynett, MS, RDN</u>, Division of Gastroenterology, Michigan Medicine, will deliver the first keynote address, entitled, Dietary Management (in those with pancreatic disorders).

<u>Elena Stoffel, MD, MPH</u>, Clinical Associate Professor of Medicine, Division of Gastroenterology, Michigan Medicine, will deliver the second keynote address, entitled, GI Medical Genetics Evaluation for Pancreatic Diseases.

The event is free and open to all physicians, patients, and caregivers. Please register by October 2, 2021.

Consider Donating to the 6th Annual Educational Event (October 2022)

https://leadersandbest.umich.edu/find/#!/give/basket/fund/331933

Event Partners

Michigan Medicine Comprehensive Pancreas Program

National Pancreas Foundation - Michigan Chapter

<u>AbbVie</u>

<u>Vivus</u>

Chiesi

Nestle



Patient and Family Centered Care for **PANCREATIC DISEASES**



Speaker Biographies

*Matthew J. DiMagno, MD is Associate Professor of Internal Medicine, Division of Gastroenterology, Michigan Medicine, University of Michigan, where he has been faculty since 2001. He is a Pancreatologist with expertise in clinical care and research in pancreatitis, exocrine pancreatic insufficiency, and other pancreatic disorders. He is author/co author of over 71 peer reviewed publications and book chapters. He has received NIH grant funding for study of acute and chronic pancreatitis. He formerly served as Chair of the American Gastroenterological Association Institute Council Pancreatic Disorders Section Committee. Currently he serves Director of the Michigan Medicine Comprehensive Pancreas Program in Gastroenterology, Gastroenterology Director of the Adult CF Center, and Course Director of the 5th Annual Patient and Family Centered Care for Pancreatic Diseases. *Medical Director, The National Pancreas Foundation Michigan Chapter

OCTOBER 9, 2021

*Richard Kwon, MD is Associate Professor of Internal Medicine, Division of Gastroenterology, Michigan Medicine, University of Michigan, where he has been faculty since 2005. He is a pancreatologist and interventional endoscopist with clinical expertise in pancreatic cystic neoplasms, pancreatic cancer, and acute and chronic pancreatitis. He has authored/coauthored over 20 papers on the role of endoscopy and technology in the management of cystic neoplasms, pancreatic cancer, and complications of both acute and chronic pancreatitis. He has received grant funding for studies related to pancreatic cystic neoplasms. He is an active member of multiple major pancreatic and GI associations. **Board Member, The National Pancreas Foundation Michigan Chapter*

Robin Winke, LMSW attended Michigan State University where she was awarded her Master's Degree in Social Work and certificate in Family Counseling. She completed her undergrad at Oakland University and has a Business degree. She is a therapist at Wink Counseling, P.C., located in Troy. Her focus is on older adults, chronic illnesses, and family dynamics. Her volunteer experience includes crisis counseling, transitional housing advocate and other local service programs for older adults.

*Chair, The National Pancreas Foundation Michigan Chapter. She is personally responsible for launching the chapter and establishing a monthly support group meeting. She is married to Derrick Winke, a survivor of pancreatitis.

*Erik Jan Wamsteker, MD is Associate Professor of Internal Medicine, Division of Gastroenterology, Michigan Medicine, University of Michigan, where he has been faculty since 2002. His clinical focus has been in the diagnosis and treatment of patients with benign and malignant pancreatic diseases and performs therapeutic endoscopic procedures on patients with pancreatic disorders and their complications. He serves on national committees where he specifically focuses on the dissemination of new knowledge and education through the creation and updating of guidelines in pancreatic diseases through the American Gastroenterological Association (AGA) and the American College of Gastroenterology (ACG) and as a counselor for the pancreatic disorders section of the AGA for Digestive Disease Week.

*Board Member, The National Pancreas Foundation Michigan Chapter





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*Georgiann Z. We are fortunate to have the opportunity to hear about the remarkable experiences of Georgiann Z, a patient who receives care at Michigan Medicine. Until she began her journey with pancreatic disease, she was employed by United Auto Workers. Currently she serves as a patient advisor on numerous committees and boards at Michigan Medicine, all aimed at improving the lives and experiences of patients. These include the Patient and Family Centered Care Committee; Emergency Department and Hospital 6B Unit Committees; Doctoring Program (mentoring 1st year Medical students), Cardiovascular Center Executive Board Committee, Michigan Institute for Clinical and Health Research review committee, Medicare Beneficiary Chair, and Ambassador to the Patient Centered Outcomes Research Institute (PCORI)

*Board Member, The National Pancreas Foundation Michigan Chapter

Amanda Lynett, MS, RDN is Registered Dietician, Division of Gastroenterology, Michigan Medicine, University of Michigan. Her clinical focus includes the low FODMAP diet for managing Irritable Bowel Syndrome, Exocrine Pancreatic Insufficiency, and Gastroparesis as well as providing other individualized nutrition counseling for a variety of gastrointestinal disorders. She has participated as invited speaker at national meetings on the topic of managing nutritional complications of patients with pancreatic insufficiency. This includes the 4th Annual GI Nutrition Training program for Registered Dietitians 2019, the 3rd Annual Patient and Family Centered Care for Pancreatic Disease, and the May 2021 Digestive Disease Week meeting.

Tannaz Guivatchian, MD is Assistant Professor of Internal Medicine, Division of Gastroenterology, Michigan Medicine, University of Michigan where she has been faculty since 2015. Dr. Guivatchian is a general gastroenterologist and specializes in hereditary gastrointestinal cancer diagnosis and management. She participates in the multidisciplinary Gastrointestinal Cancer Genetics Clinic Program at Michigan Medicine and is also involved in clinical research in the field. Her clinical interests additionally include medical student education.

Andrea M Murad, MS, CGC is Lead Genetic Counselor, Cancer Genetics Clinic, Department of Internal Medicine, Michigan Medicine, University of Michigan. Her research interests include health disparities in genetic counseling and the process of returning secondary or incidental findings on genetic tests and their integration into patient care. She is currently the Vice President of the Michigan Association of Genetic Counselors, the Vice Chair of the Practice Guidelines Committee of the National Society of Genetic Counselors (NSGC) and was selected as an author for the Hypertrophic Cardiomyopathy Guidelines Systematic Review. She also supervises genetics residents, genetic counseling students, medical students, and hematology/oncology fellows in the Cancer Genetics Clinic.

Elena M Stoffel, MD, MPH is Associate Professor of Internal Medicine, Division of Gastroenterology, Michigan Medicine, University of Michigan. Her clinical and research interests encompass early detection and prevention of gastrointestinal cancers, as well as diagnosis and management of individuals with genetic predisposition. She is an investigator funded by the National Institute of Health. She has served in numerous leadership rounds within Michigan Medicine and Nationally. Dr. Stoffel serves on the ASCO Committee for Cancer Genetics and is a past President of the Collaborative Group of the Americas on Inherited Colorectal Cancer (CGA ICC).





Abbreviations

- **ACT**, acceptance and commitment therapy
- AGAF, American Gastroenterological Association Fellow
- ATA, accredited tax advisor
- ATM, ataxia telangiectasia
- **ATP,** accredited tax preparer
- BRCA, breast cancer gene
- CAP, certified administrative profession
- CaSR, calcium sensing receptor
- CBD, cannabidiol
- CBT, cognitive behavioral therapy
- CDE, certified diabetes educator
- CDKN2A, cyclin dependent kinase inhibitor 2A
- CF, cystic fibrosis
- CFTR, cystic fibrosis transmembrane conductance regulator
- CGC, clinical genetics counselor
- CGM, continuous glucose monitor
- **CME,** continuing medical education
- COE, center of excellence
- CP, chronic pancreatitis
- CT, computed tomography (CAT scan)
- CTRC, chymotrypsin C
- DEXA, dual energy X ray absorptiometry (bone density test)
- DM, diabetes mellitus
- DNA, deoxyribonucleic acid
- EPI, exocrine pancreatic insufficiency
- ERCP, endoscopic retrograde cholangiopancreatography
- EUS, endoscopic ultrasonography
- FACS, Fellow, American College of Surgeons





- FASGE, Fellow American Society Gastrointestinal Endoscopy
- **GE**, gastroenterologist
- GI, gastrointestinal
- GP, general practitioner
- HFE gene, high FE2+ gene (hemochromatosis gene)
- IBD, inflammatory bowel disease
- LMSW, Licensed Master Social Worker
- MBA, Master of Business Administration
- MCT, medium chain triglycerides
- MD, Doctor of Medicine
- MLH, mutL homolog 1
- MM, Michigan Medicine
- MPH, Master of Public Health
- MRI, magnetic resonance imaging
- MSH, melanocyte stimulating hormone
- MSc, Master of Science
- NIH, National Institutes for Health
- NPF, National Pancreas Foundation
- PA, physician assistant
- PALB2, partner and localizer of BRCA2
- PARP, poly (ADP ribose) polymerase
- PD, pancreatic duct
- PhD, Doctor of Philosophy
- PERT, pancreatic enzyme replacement therapy
- PMS, photopheriod sensetive genic male sterility
- PRSS1, serine protease 1 (cationic trypsinogen)
- PsyD, Doctor of Psychology
- QOL, quality of life
- RD, registered dietician
- REE, resting energy expenditure





SIBO, small intestinal bacterial overgrowth SPINK1, small intestinal bacterial overgrowth STK11, serine/threonine kinase 11 THC, tetrahydrocannabinol

VUS, variant of unknown significance





Weblinks

Michigan Medicine, Comprehensive Pancreas Program – Gastroenterology

- <u>https://medicine.umich.edu/dept/intmed/divisions/gastroenterology</u> <u>hepatology/programs/comprehensive pancreas program</u>
- Appointments: 888 229 7408 (www.UofMHealth.org/gi)

To donate

<u>https://michmed.org/xo12W</u>

Michigan Medicine, Pancreatic Cancer Clinic – Cancer Center

- <u>https://www.rogelcancercenter.org/pancreatic cancer/clinic</u>
- <u>https://pancreas.med.umich.edu/</u>

National Pancreas Foundation, Michigan Chapter

Home page - board, educational events, support group meeting

• https://pancreasfoundation.org/state chapters/michigan/

To donate (fundraising walk 11/13/21, 11:30 AM, Paint Creek Cider Mill, MI)

<u>https://give.pancreasfoundation.org/ge/pancwalk</u>

National Pancreas Foundation (NPF)

Home page

- <u>https://pancreasfoundation.org/</u>
 - NPF Centers of Excellence
- <u>https://pancreasfoundation.org/npf centers info/</u> State chapters
- <u>https://pancreasfoundation.org/state chapters/</u>
 About the pancreas
- <u>https://pancreasfoundation.org/patient information/about the pancreas/</u> *Animated pancreas patient*
- https://pancreasfoundation.org/patient-information/animated-pancreas-patient/

















Attendee Action Items: Pre- and Post-Event Surveys

Complete 5 days before program

• Complete all true/false question to be entered into a random drawing for prizes.

Please circle true or false for each question

1.	Kwon	NPF center designation <u>requires</u> multidisciplinary expertise in pancreatic diseases	True	False
2.	Winke	The NPF Michigan chapter <u>has</u> support group meetings once per month	True	False
3.	Wamsteker	Severe pancreatic insufficiency (maldigestion) is treated with pancreatic enzymes	_True	False
4.	Patient	Patient family involvement <u>does not</u> make a difference in clinical outcomes	True	False
5.	Lynett	Pancreatic maldigestion can cause weight loss, muscle wasting and osteoporosis	True	False
6.	Lynett	Recommended dietary fat is 30 % of total for patients with pancreatic maldigestion_	True	False
7.	Guivatchian	Genetic testing for pancreatitis is only for patients with a family history	_True	False
8.	Murad	Genetic testing for pancreatic cancer is most often performed by blood testing	True	False
9.	Stoffel	Genetic counseling includes counseling of family members	True	False

Please submit questions you have for presenters to answer during the panel discussions

Questions about pancreatic insufficiency:					
Questions about nutrition:					
Questions about Genetic testing:					
Other questions:					





Complete within 5 days after program

• Complete all true/false question to be entered into a random drawing for prizes.

Please circle true or false for each question

1.	Kwon	Michigan Medicine is the only National Pancreas Foundation Center in Michigan	True	False
2.	Winke	The NPF Michigan chapter <u>has</u> support group meetings once per month	_True	False
3.	Wamsteker	Diabetes mellitus is rare in patients with chronic pancreatitis or cancer	_True	False
4.	Wyckoff	Patients with diabetes and chronic pancreatitis always require insulin	_True	False
5.	DiMagno	Abdominal pain is present in all patients with chronic pancreatitis	True	False
6.	Wiley	Cannabis relieves pain in the majority of patients with chronic pancreatitis	True	False
7.	Riehl	Behavioral therapy for pain is <u>under utilized</u> in patient with chronic pancreatitis	True	False

OCTOBER 9, 2021

Please evaluate the overall quality of program below

This event increased my knowled	dge Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
This event was valuable to me	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
I will attend next year's event?	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
What topics are interesting to yo	ou? Please rank from 1 (p	oreferred) to 9	(least preferre	ed)	
a. Abdominal pain:	(1 9)				
b. Pancreatic enzymes:	(1 9)				
c. Nutrition:	(1 9)				
d. Diabetes:	<u>(1 9)</u>				
e. Pancreatic cancer:	<u>(1 9)</u>				
f. Pancreatic cysts:	<u>(1 9)</u>				
g. Pancreatic surgery:	<u>(1 9)</u>				
h. Endoscopic procedures:	<u>(1 9)</u>				
i. Other:	<u>(1 9)</u>				
If "other" please list here:					





Past Annual Educational Events (2017-2021) and Materials

OCTOBER 9, 2021

2021 Maldigestion and Genetics

Virtual (due to Covid-19) University of Michigan Medical Campus 125 registrations; 15 states, 6 countries

2020 Diabetes and Pancreatic Pain

Virtual (due to Covid-19) University of Michigan Medical Campus 256 registrations; 40 states, 5 countries

2019 Maldigestion and Pancreatic Cancer

Live, Inn at St Johns, Plymouth, Michigan 75 attendees; 95% planned to return

2018 Complex Care and Pancreatic Pain

Live, Inn at St Johns, Plymouth, Michigan 80 attendees; 95% planned to return

2017 Patient/Family Centered Care and NPF Centers

Live, Inn at St Johns, Plymouth, Michigan 35 attendees; 87% planned to return

Link to syllabus & Video



Link to syllabus & Video



Link to syllabus







11:30 am	Welcome Matthew DiMagno, MD - Course Director	
11:40	MM Comprehensive Pancreas Program Updates Richard Kwon, MD	
11:50	NPF Michigan Chapter Updates Robin Winke, LMSW	
	Part I. Maldigestion	1:10
12:00 pm	Clinical Problem - Maldigestion Erik-Jan Wamsteker, MD	
12:05	Patient Testimony	1:35
12:15	Keynote Presentation: Dietary Management Amanda Lynett, MS, RDN	
	Panel Discussion	



Part II. Genetics

Genetic Causes of Pancreatic Diseases – Case-Based Discussions Andrea Murad, MS, CGC Tannaz Guivatchian, MD

Keynote Presentation: GI Genetics Evaluation for Pancreatic Diseases Elena Stoffel, MD, MPH

Panel Discussion



Live Webinar Broadcast University of Michigan Medical Campus









5TH ANNUA Patient ar PANC OCTOBER 9,	REATIC DISE	EASES					
	BRIEF ANNOUNCEMENTS						
•	 See 4th Annual Event (Oct 17, 2020) syllabus and video here 						
Digestive and Liver Health							
	Digestive and Liver Health	Pancreatic Disorders					
	Why Choose Michigan	The pancreas is a gland that sits behind the stomach and plays a key role in the digestive system. It supplies the intestines with digestive enzymes that					
	Our Care Team	split the fats, proteins and carbohydrates in your diet into digestible molecules,					
	Your Digestive System	and it produces insulin and other hormones that control your body's ability to use sugar (glucose).					
	Education Videos	Pancreatic disorders include: (Video) @					
	Make an Appointment	Pancreatitis (Sides) / P					
	Conditions and Procedures	Exocrine pancreatic insufficiency (EPI)					
¥	Pancreatic Disorders	Cystic Fibrosis (CF): associated GI disorders Pancreatic Cancer					



STH ANNUAL Patient and Family Centered Care for PANCREATIC DISEASES OCTOBER 9, 2021						
	TODAY'S PROGRAM	GOALS				
	 Updates: Michigan Medicine Comprehensive Pancreas Program National Pancreas Foundation Michigan Chapter Increase understanding of the relationship between abnormal digestion and pancreatic diseases; ways to improve or maintain nutrition 					
	15 min break					
2 Highlight genetic causes of pancreatitis, pancreatic insufficiency and pancreatic cancer; and what happens during genetic counseling sessions.						

STH ANNUAL Patient and Family Center PANCREATIC D OCTOBER 9, 2021				
	т	HANK	YOU	
Partners	AbbVie	Chiesi	Nestle	Vivus
Planning	, in the second s	ancreas Foundation	Board Memb	Pancreas Program ers t, Board Secretary
			VICKY VIIICEII	t, board Secretary

	and Family Centered Care for CREATIC DISEASES	3	
11:40	MM Comprehensive Pancreas Program Updates Richard Kwon, MD		
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	Part I. Maldigestion	1:10	Genetic Causes of Pancreatic Diseases – Case-Based Discussions
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12:15	Keynote Presentation: Dietary Management Amanda Lynett, MS, RDN		Elena Stoffel, MD, MPH
	Panel Discussion		Panel Discussion



Industry Relationship Disclosures Industry Supported Research and Outside Disclosures

• Abbvie (research)

































THE COMPREHENSIVE PANCREAS PROGRAM

THANK YOU





	and Family Centered Care for CREATIC DISEASES		
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	Panel Discussion		Panel Discussion



NATIONAL PANCREAS FOUNDATION MISSION

The National Pancreas Foundation provides **hope** for those suffering from pancreatitis and pancreatic cancer through funding cutting edge **research**, **advocating** for new and better therapies, and providing **support** and **education** for patients, caregivers, and health care professionals



The **National Pancreas** Foundation





















MICHIGAN MEDICINE

STH ANNUAL Patient and Family Centered Care for PANCREATIC DISEASES OCTOBER 9, 2021			
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12:15	Keynote Presentation: Dietary Management Amanda Lynett, MS, RDN		
	Panel Discussion		Panel Discussion




Maldigestion - Definition

Maldigestion

- Impaired digestion, incomplete breakdown of food (nutrients) in the intestine
- Causes: pancreatic enzyme deficiency, other enzyme deficiency (ie. Lactase)

Malabsorption

- Impaired mucosal absorption of nutrients from the intestine into the blood
- Causes: maldigestion (above) or defects in absorption or transport.

Subtle distinction between terms

- Maldigestion is one cause of malabsorption
- Terms often used interchangeably











Maldigestion – Patient Testimonial

12:00 pm	Clinical Problem - Maldigestion Erik-Jan Wamsteker, MD
12:05	Patient Testimony Recorded Interview
12:15	Keynote: Dietary Management Amanda Lynett, MS, RDN
12:30	Panel Discussion
	MICHIGAN MEDICINE



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DIAGNOSIS: Idiopathic chronic pancreatitis

FUN FACT: I am a brand-new grandmother

DIAGNOSIS: In 2004 I was diagnosed with Idiopathic Chronic Pancreatitis. Never knew where or what the pancreas did but I sure realized how painful and angry the pancreas can be. After a 65-day hospital stay in 2004, I continue to have multiple hospital stays per year. Fortunately, when not in a pancreas flare my days are good.

SUPPORT SYSTEM: Faith, family and friends are my greatest support team, along with my medical team. For me, I could not do this journey alone. The challenging part of all this is that most of my family and friends knew very little about the pancreas so we all learned together. I can say we are all still learning.

LIFESTYLE CHANGES YOU'VE MADE: I had to disability retire from a great job with the UAW in 2010. This was not only hard emotionally but financially as well. I always thought I would work to "retirement age", have the going away lunch and walk away fulfilled. I felt cheated that my illness determined by timeline for retirement.

WHAT THE DISEASE TAUGHT YOU ABOUT YOURSELF:

I feel that my attitude and strength is greater than I ever could have imagine. I run with my good days and try not to worry if a flare is around the corner. If asked to go somewhere or participate in something I generally say yes with the hope that I will be well enough to go. I take my diagnosis seriously, but I do not let it steal my joy!

WHERE ARE YOU NOW: I continue to have pancreas flares and hospital stays. Happy to say that the admits are getting farther apart. For me, my cup will always be half full and never half empty. Because of my pancreatitis I am a patient advisor at Michigan Medicine which allows me to be a voice for not only myself but many patients and families.

WHERE ARE YOU NOW: I continue to have pancreas flares and hospital stays. Happy to say that the admits are getting farther apart. For me, my cup will always be half full and never half empty. Because of my pancreatitis I am a patient advisor at Michigan Medicine which allows me to be a voice for not only myself but many patients and families.

HOW ARE YOU INVOLVED WITH NPF MICHIGAN: I was approached a year ago by an NPF Michigan board member. I was honored to be asked to join a very important group. I currently am the fundraising chair and am excited to not only raise funds for research but to build relationships with others that are on the same pancreas journey.

ADVICE FOR SOMEONE FACING A DIAGNOSIS: The greatest advice I would give to family and friends when dealing with someone with a chronic condition would be to love us, listen to us, and just be there. I understand how hard it is to watch me struggle but many times all I need to know is that you're there. As for the new patient I would say it's okay to be mad, angry and upset. You to you!





	and Family Centered Care for CREATIC DISEASES		
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	Panel Discussion	_	Panel Discussion











Clinical Manifestations of Select Vitamin/Mineral Deficiencies

Vitamin A	Xerophthalmia <i>Night blindness</i> Bitot's spots Follicular hyperkeratosi Immune dysfunction	Vitamin E	Peripheral neuropathy Spinocerebellar ataxia Skeletal muscle atrophy Retinopathy Anemia	Zinc	<i>Dermatitis</i> Alopecia Diarrhea Weight loss Infection Hypogonadism
Vitamin D	Rickets Bowed legs Osteomalacia	Copper	Neutropenia <i>Impaired bone calcification</i> Myelopathy <i>Neuropathy</i> Anemia		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Vitamin K	Elevated prothrombin t Coagulopathy ↓ bone health	ime			
					MICHIGAN MEDICINE







Suggestions to Increase Calories

- Do not skip meals
- Keep food & snacks that are easily accessible (trail mix, peanut butter and crackers, canned fruit, yogurt, cottage cheese)
- · Set alarms to eat around the clock
- Batch cook on weekends or days when you have more energy
- Base meal sizes/patterns around energy level or symptoms
- · Choose higher-calorie drinks such as milk or smoothies
- · Limit liquids at mealtimes

Suggestions to Increase Protein

- Add extra protein to meals:
 - Add hard cooked eggs to casseroles or vegetables
 - Protein powders to oatmeal/smoothies/yogurts
 - Nuts and seeds to salads, muffins, cookies
 - Dry milk powder to mashed potatoes, energy bites

MICHIGAN MEDICINE

MICHIGAN MEDICINE

Menu Ideas

BREAKFAST: Overnight Oats: ¼ c. Greek yogurt, ½ c. rolled oats, ½ c. milk, chai seeds, protein powder, honey	LUNCH/DINNER: Grilled salmon or white fish with lemon, herbs, brown rice, 1 cup steamed broccoli Whole wheat pasta with tomato sauce plus	SNACKS: Toasted bread with peanut butter and ½ banana Cottage cheese
Egg omelet with sauteed vegetables and cheese, roasted potatoes	vegetables (spinach, mushrooms, peppers)	Greek yogurt
Whole grain bagel topped with sliced avocado or hard boiled eggs, side of ½ cup	Grilled chicken kabobs with green peppers, tomatoes, mushroom, zucchini served with	Premade protein shakes
fresh fruit	quinoa	Baked apple with cinnamon
	Turkey burger with lettuce, tomato on a whole Edamame grain bun, sweet potato or baked potato	
		Homemade trail mix: Pretzels, almonds,
	Homemade tuna salad on two slices of bread with 1 cup fruit	g wantuts, uneu tranbernes

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Nutrition Tips for Pancreatic Enzymes

Brand	Units of lipase
Creon	3000; 6000; 12,000; 24,000; 36,000
Zenpep	3000; 5000; 10,000; 15,000; 20,000; 25,000
Pancreaze	4200; 10,500; 16,800; 21,000
Ultresa	13,800; 20,700; 23,000
Viokase	10,440; 20,880 (requires acid suppression
Pertzye	8000; 16,000

- Educate yourself on how to properly take
 - Meal timing: 1st capsule with first bite of meal/snack Additional capsules in the middle and/or end of meal
- Avoid grazing
- Certain foods may not require enzymes (i.e. juice, hard candy, slice of white bread)
- Monitor your symptoms before and after starting pancreatic enzymes; notify provider

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Role of GI Dietitian What's for Dinner? DAY OF THE WE Screen and monitor for malnutrition • Sunday Gather other pertinent background • Monday information Tuesday Nutrition interventions that are individualized Wednesday (dietary modifications, lifestyle modifications) Thursday Aids in managing GI symptoms (loss of Friday appetite, abdominal pain, bone health) Saturday Misc. MICHIGAN MEDICINE





	and Family Centered Care for CREATIC DISEASES	a	
11:30 am	Welcome Matthew DiMagno, MD - Course Director		
11:40	MM Comprehensive Pancreas Program Updates Richard Kwon, MD	5	Research of the second s
11:50	NPF Michigan Chapter Updates Robin Winke, LMSW		Part II. Genetics
	Part I. Maldigestion	1:10	Genetic Causes of Pancreatic Diseases – Case-Based Discussions
12:00 pm	Clinical Problem - Maldigestion Erik-Jan Wamsteker, MD		Andrea Murad, MS, CGC Tannaz Guivatchian, MD
12:05	Patient Testimony	1:35	Keynote Presentation: GI Genetics Evaluation for Pancreatic Diseases
12:15	Keynote Presentation: Dietary Management Amanda Lynett, MS, RDN		Elena Stoffel, MD, MPH
	Panel Discussion		Panel Discussion



Industry Relationship Disclosures Industry Supported Research and Outside Disclosures

- Andrea Murad is a paid consultant for Concert Genetics
- Tannaz Guivatchian has no disclosures to report

















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Pancreatic Cancer Risk Factors



3 cm hypoattenuating mass in the tail of the pancreas

Definite Risk Factors

- Age
- Smoking
- · Hereditary pancreatitis
- Other familial syndromes (10%)
- Diabetes (particularly recent dx)
- · Obesity
- Non-O blood group
- Pancreatic cysts (e.g. IPMN)
- Chronic pancreatitis (inflammation)

Possible

- · Diet: Fat, Dairy, Red meat
- Alcohol
- · Chemicals: Benzidine, beta-naphthylamine

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Yadav and Lowenfels. The epidemiology of pancreatitis and pancreatic cancer. Gastroenterology, 2013;144(6):1252-61

Hereditary Breast Ovarian Syndromes: • BRCA 1 or 2 • PALB2 • ATM Familial Melanoma Differential • CDKN2A **Potential Genetic** Peutz Jeghers Syndrome • STK11 Causes of **Pancreatic Cancer** • MLH1, MSH2, MSH6, PMS2 **Hereditary Pancreatitis** • PRSS1, SPINK1, others BRCA, breast cancer gene; PALB2, partner and localizer of BRCA2; ATM, ataxia-telangiectasia; CDKN2A, cyclin-dependent kinase inhibitor 2A; STK11, serine/threonine kinase 11; MLH, mutL homolog 1; MSH, melanocyte stimulating hormone; PMS, photopheriod-sensetive genic male sterility; PRSS1, serine protease 1; SPINK1, serine peptidase inhibitor Kazal type 1;

















What is involved in a genetic counseling visit?

- Visits typically last 30-75 min, depending on the reason for referral
- Your genetic counselor will:
 - Explore your family health history
 - Discuss the reason for the referral
 - Talk about decisions that may need to be made
 - Help you understand what tests are available, what those tests may show, and provide guidance to help you decide whether to choose testing
 - Provide guidance and emotional and support as you decide what to do



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- Support is available for
 - Dealing with your own diagnosis and medical management
 - To help you communicate genetic information with your family members
- We are a community
 - We can help you get the information you need
- Don't give up!
 - Genetic testing can identify which relative need increased cancer screening, aimed at early detection of cancer and saving lives!



OCTOBER 11:30 am 11:40	CREATIC DISEASES Welcome Matthew DiMagno, MD - Course Director MM Comprehensive Pancreas Program Update Richard Kwon, MD	s	
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Precision Medicine

"An emerging approach for disease treatment and prevention that takes into account <u>individual</u> <u>variability</u> in genes, environment, and lifestyle for each person."

--National Institutes of Health



What Treatment is best for ME?









Families with Genetic Risk are Underdiagnosed

- <u>1 in 300</u> people carry gene changes associated with <u>Hereditary Breast</u> <u>Ovarian Cancer Syndrome (BRCA)</u>
- <u>1 in 300</u> people carry gene changes associated with <u>Lynch Syndrome</u>
- <u>1 in 100</u> people carry changes in *ATM* gene
- <u>1 in 31 people carry changes in</u> *CFTR* gene
- How do we identify and intervene early?



Image © Ralph A. Clevenger







BRCA, breast cancer gene PARP, Poly (ADP-ribose) polymerase











Not all genetic tests are CLINICAL GENETIC TESTS!

Who should undergo <u>clinical genetic testing</u> for pancreatic disease?

Pancreatic Cancer

By KIRA PEIKOFF

Published: December 30, 2013 F 421 Comments

- <u>All individuals with a diagnosis of pancreatic</u> <u>cancer</u> (Genetic diagnosis in <u>1 in 20</u>)
- Members of families in which there is an identified genetic disease causing germline gene variant
- Individuals who meet criteria for familial pancreatic cancer
- Close relatives (siblings, children, parents) if the pancreatic cancer patient was not able to undergo genetic testing

Pancreatitis

- Individuals who have recurrent acute pancreatitis AND family history of close relative(s) with pancreatitis
- Children and young adults with unexplained recurrent pancreatitis
- PRSS1, SPINK1, CTRC, CASR, CFTR













STH ANNUAL Patient and Family Centered Care for PANCREATIC DISEASES OCTOBER 9, 2021		
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	Amanda Lynett, MS, RDNCLOSINGPanel DiscussionREMARKS	Panel Discussion





