

# 4th Annual Patient and Family Centered Care For Pancreatic Disease

# Saturday, October 17, 2020 10:00 am – 1:00 pm • Virtual Meeting *(due to Covid-19)*

10:00 am	<b>Welcome</b> Matthew DiMagno, MD - Course Director	11:30	Break
10:10	MM Comprehensive Pancreas Program Updates Richard Kwon, MD	1145	<b>Clinical Problem - Pain</b> Matthew DiMagno, MD
		11:50	Patient Testimony
10:20	NPF Michigan Chapter Updates		
	Robin Winke, LMSW	12:00 pm	<b>Research: Cannabis for pain</b> John Wiley, MD
10:30	Clinical Problem - Diabetes		
	Erik-Jan Wamsteker, MD	12:10	Keynote Presentation: Behavioral Therapy Megan Riehl, PsyD
10:35	Patient Testimony		
		12:25	Panel Discussion
10:45	Keynote Presentation: Diabetes Treatment		
	Jen Wyckoff, MD	12:55	Questions/Answers
11:00	Panel Discussion	1:00	Adjourn

**Pre-registration required by October 1**<sup>st</sup>, 2020 To Register: http://michmed.org/9ap2x To Donate: https://michmed.org/xo12W



To Donate













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- 7. Introduction 4<sup>rd</sup> Annual Patient & Family Centered Care for Pancreatic Diseases 11-15 Matthew DiMagno, MD - Course Director (Medical Director, NPF Michigan Chapter)
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### About this Event

On October 17, 2020 Michigan Medicine and the National Pancreas Foundation Michigan Chapter will host the 4th 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.

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 diabetes and both pancreatitis and pancreatic surgery; ways to improve/maintain control blood sugars; causes of abdominal pain in pancreatic disorders; and the role of cannabis and behavioral therapy in personalized management of pain. We will also discuss updates and resources available at the Michigan Medicine Comprehensive Pancreas Program and the National Pancreas Foundation (NPF) Michigan Chapter.

<u>Jennifer Wyckoff, M.D.</u>, Associate Professor of Medicine, Division of Endocrinology, Michigan Medicine, will deliver the first keynote address, entitled, Diabetes Treatment (in those with pancreatic disorders).

<u>John Wiley, MD</u>, Professor of Medicine, Division of Gastroenterology, Michigan Medicine, will discuss new research data on Cannabis for Pain.

<u>Megan Riehl, PsyD</u>, Assistant Professor of Medicine, Division of Gastroenterology, Michigan Medicine, will deliver the second keynote address, entitled, Behavioral Therapy for Pain.

The event is free and open to all physicians, patients and caregivers. Please register by October 1, 2020.

#### Consider Donating to the 5th Annual Educational Event (Fall, 2021)

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

#### **Event Partners**

Michigan Medicine Comprehensive Pancreas Program

National Pancreas Foundation - Michigan Chapter

AbbVie



OCTOBER 17, 2020

### 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 a clinical focus and research in pancreatitis, exocrine pancreatic insufficiency, cystic fibrosis related GI disorders, and other pancreatic disorders. He is author/co-author of over 65 peerreviewed publications and book chapters. His research of acute and chronic pancreatitis has been funded by the National Institute of Health. He recently 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 Michigan Medicine Cystic Fibrosis Center and Course Director of the 4<sup>th</sup> Annual Patient and Family Centered Care for Pancreatic Diseases.

\*Medical Director, The National Pancreas Foundation Michigan Chapter

\*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, as well as, 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, as well as, 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 is 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 from Dr. Anderson. 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 1<sup>st</sup> 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

Jennifer Ann Wyckoff, MD is Associate Professor of Internal Medicine and the Associate Clinical Chief of the Division of Metabolism, Endocrinology and Diabetes (MEND), Michigan Medicine, University of Michigan. Dr. Wyckoff also serves as the Medical Director for the Adult Diabetes Education Program and the Director of the Endocrine Disorders in Pregnancy program in MEND. Her clinical and research interests include various aspects of diabetes, including insulin pumps, patient education, diabetes and pregnancy, cystic fibrosis related diabetes and transplant related diabetes.

John Wiley, MD is Professor of Internal Medicine, Division of Gastroenterology, Michigan Medicine, where he has been faculty since 1987. His clinical focus is the gut-brain axis, gastrointestinal motility disorders with particular interest in the Irritable Bowel Syndrome, diabetes mellitus and the effects of aging on the GI tract. His research is funded by the National Institute of Health and focuses on pain mechanisms, including endocannabinoids and cannabis on neurotransmitter regulation of ion channels in health and disease. He has served in numerous leadership roles within Michigan Medicine and Nationally including President, American Neurogastroenterology & Motility Society and Chair, American Gastroenterological Association Institute Council, Neurogastroenterology & Motility Section.

**Megan Riehl, PsyD** is Assistant Professor of Internal Medicine, Division of Gastroenterology, Michigan Medicine, University of Michigan. As a GI psychologist she specializes in the treatment of GI problems and anxiety-related disorders. She is the Clinical Director of the GI Behavioral Health Program at the University of Michigan. At Michigan Medicine, Dr. Riehl has a robust clinical practice, conducts research in the area of psychogastroenterology and offers a state of the art GI psychology training program in the form of a formal post-doctoral fellowship or brief trainings for mental health providers. She is the Director of Behavioral Health Services and Support for Gastro Girl, INC and GI OnDemand. Dr. Riehl is the co-chair for the ROME Foundation Psychogastroenterology Education and Training committee, participates on two national committees pertaining to the psychosocial aspects of IBD with the Crohn's and Colitis Foundation and sits on the Membership and Mentorship committee with the American Neurogastroenterology and Motility Society.





#### Abbreviations

- ACT, acceptance and commitment therapy
- AGAF, American Gastroenterological Association Fellow
- ATA, accredited tax advisor
- ATP, accredited tax preparer
- CAP, certified administrative profession
- CBD, cannabidiol
- CBT, cognitive behavioral therapy
- CDE, certified diabetes educator
- CF, cystic fibrosis
- CGM, continuous glucose monitor
- CME, continuing medical education
- COE, center of excellence
- CP, chronic pancreatitis
- CT, computed tomography (CAT scan)
- DM, diabetes mellitus
- 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
- MM, Michigan Medicine
- MPH, Master of Public Health
- MRI, magnetic resonance imaging
- MSc, Master of Science
- NIH, National Institutes for Health
- NPF, National Pancreas Foundation
- PA, physician assistant
- PD, pancreatic duct
- PhD, Doctor of Philosophy
- PERT, pancreatic enzyme replacement therapy
- PsyD, Doctor of Psychology
- QOL, quality of life
- RD, registered dietician
- REE, resting energy expenditure
- SIBO, small intestinal bacterial overgrowth
- **THC**, tetrahydrocannabinol



OCTOBER 17, 2020



#### Weblinks

#### Michigan Medicine, Comprehensive Pancreas Program – Gastroenterology

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

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

<u>https://pancreasfoundation.org/state-chapters/michigan/</u>

#### To donate

<u>http://bit.ly/MichDonation</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*
- <u>https://pancreasfoundation.org/patient-information/animated-pancreas-patient/</u>

















### 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	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 <u>is rare</u> 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

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

Questions about diabetes:	
Questions about pain:	
Questions about Cannabis:	
Questions about behavioral therapy:	
Other questions:	





#### Complete within 5 days after program

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#### Please evaluate the overall quality of program below

This event increased my knowledge	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 you? F	Please rank from 1 (pr	eferred) to 9	(least preferre	ed)	
a. Abdominal pain:	<u>(1-9)</u>				
b. Pancreatic enzymes:	<u>(1-9)</u>				
c. Nutrition:	<u>(1-9)</u>				
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:	(1-9)				
If "other" please list here:					









# Part II. Pain 11:45 Clinical Problem - Pain Matthew DiMagno, MD 11:50 Patient Testimony 12:00 pm Research: Cannabis for pain John Wiley, MD 12:10 Keynote Presentation: Behavioral Therapy Megan Riehl, PsyD Panel Discussion

# Live Webinar Broadcast University of Michigan Medical Campus















4TH ANNUAL Patient and Family Ce PANCREATIC OCTOBER 17, 2020			
	THANK	YOU	
Partners	The National Pancreas Foundation Michigan Chapter	abbvie	
Planning	Michigan Medicine Comprehensive Pancreas Program Board, NPF Michigan Chapter <i>Special Thanks</i> : Vicky Vincent, Board Secretary		
In Memory	Mr. William Vincent		
Attendees	Thank you for attending	g! Enjoy the	event!

PAN	and Family Centered Care for CREATIC DISEASES R 17, 2020 Welcome		
	Matthew DiMagno, MD - Course Director	<b>`</b>	
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	Panel Discussion		Panel Discussion



# Industry Relationship Disclosures Industry Supported Research and Outside Disclosures

• Abbvie (research)

































# THE COMPREHENSIVE PANCREAS PROGRAM

THANK YOU





**4TH ANNUAL Patient and Family Centered Care for** PANCREATIC DISEASES **OCTOBER 17, 2020** 10:00 am Welcome Matthew DiMagno, MD - Course Director 10:10 **MM Comprehensive Pancreas Program Updates** Richard Kwon, MD 10:20 **NPF Michigan Chapter Updates** Part II. Pain Robin Winke, LMSW 11:45 **Clinical Problem - Pain** Part I. Diabetes Matthew DiMagno, MD **Clinical Problem - Diabetes** 11:50 **Patient Testimony** 10:30 Erik-Jan Wamsteker, MD 12:00 pm Research: Cannabis for pain John Wiley, MD 10:35 Patient Testimony **Keynote Presentation: Behavioral Therapy** 10:45 **Keynote Presentation: Diabetes Treatment** 12:10 Megan Riehl, PsyD Jen Wyckoff, MD **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

















PAN	TUAL and Family Centered Care for CREATIC DISEASES R 17, 2020		
10:00 am	<b>Welcome</b> Matthew DiMagno, MD - Course Director		
10:10	MM Comprehensive Pancreas Program Update Richard Kwon, MD	25	
10:20	NPF Michigan Chapter Updates Robin Winke, LMSW		Part II. Pain
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# Industry Relationship Disclosures Industry Supported Research and Outside Disclosures

No disclosures relevant to this discussion



# **GENERAL PRESENTATIONS OF PANCREATITIS**



### Acute

- Acute inflammation
- Acute abdominal pain
- Elevated pancreatic enzymes in serum
- Self-limiting



# Chronic

- Chronic inflammation
- Recurrent or chronic abd pain
- Progressive loss of pancreatic
  - o endocrine function and
  - $\circ$  exocrine function



AGA Institute teaching slides














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#### Georgiann Ziegler Pain & Diabetes – Patient Testimony

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.

#### CHALLENGES

*Diabetes due to pancreatitis*. Hearing the words "you have diabetes" was very difficult. There was so much to learn and understand about how to navigate life with diabetes. From nutrition to medications and how they help to maintain good blood sugar levels. For me, working/partnering with my endocrinologist has helped to control my diabetes.

*Pain management* and awareness has come with time during my pancreas journey. Being aware that there are many options and determining which option is best for me has been key. Here is an example of what I do at the onset of a pancreas flare. At the first sign of a pancreas flare I begin by reducing intake of food and beverage, using a heating pad and over the counter pain medications. If pain persists I advance to medications prescribed by my physician. If after a few days this does not help and pain radiates to my back, I know it is time to head to the hospital.

**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





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**HOW ARE YOU INVOLVED WITH NPF MICHIGAN:** I was approached 3 years ago by an NPF Michigan board member. I was honored to be asked to join a very important group. In addition to serving the board I am building relationships with others who 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!

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# How does treatment for diabetes help me?

Lowering glucose can

•

- Improve energy/ sleep
- Reduce the risk of infections
- Reduce hunger / nausea\*
- Promote weight loss or weight gain\*
- Reduce risk of hyperglycemic emergencies
- Reduce risk of mortality
- Prevent blindness
- Prevent kidney failure
- Reduce the risk of neuropathic complications
- Reduce the risk of amputations
- Reduce the risk of heart disease\*
- Lower cholesterol
- Improve sexual function and fertility
- Etc.
  - \*(depending on treatment choice)

- Talk to your doctor about
  - Your symptoms and
  - Your specific risk for various complications



### What is the role of nutrition and diabetes education?

Registered Dietitian (RDN) - with experience in malabsorption syndromes!

- Provide basic nutrition education
- · Help you design a eating plan with the right amount of calories and nutrients
- Help you avoid high and low glucose readings
- · Teach you how to count the amount of carbohydrate in your food to allow you to dose insulin more accurately.
- · Reduce bloating, diarrhea and other GI symptoms
- Reduce your risk of kidney stones
- Address vitamin deficiencies
- · Recognize the emotional context of eating

#### **Certified Diabetes Educator (CDE)**

- · Provide education about exercise, diabetes medications, diabetes complications, coping skills, diabetes technology, etc.
- Case Management/ Coaching to achieve weight and blood glucose goals
- Insulin adjustments
  - Diabetes Education has been shown to:
    - Reduces hospital admissions/ ED visits
  - Reduces A1C by 1% for ~ year

Ask for a referral to an RD/CDE with experience with malabsorption syndromes!

# How do I monitor my blood glucose?

Monitoring is important.

- Blood Glucose Targets
  - (may need to be individualized)
  - Fasting 80-130 mg/dl
  - Peak Postprandial < 180 mg/dl</li>
- How Often?
  - Fasting ± Bedtime
  - Or Before each meal and at Bedtime
  - or Continuously
  - Ask your doctor.
  - Increase testing if ill!
- With what device?

#### – Glucose Meter

- For patients on 4 shots of insulin a day or less
- Continuous Glucose Monitor
  - For patients on 4 shots of insulin a day or a pump

- Blood Glucose Management Goals (may need to be individualized)
  - $A1c \le 7.0\%$
  - Average glucose of 154 mg/dl
  - Time In Range >70% (70mg/dl-180mg/dl)

MICHIGAN MEDICINE

- How Often?
  - A1C 2-4 times a year
- Caveats
  - A1c accuracy is impacted by many factors.
  - CGM accuracy is impacted by fewer factors.

#### What medication is right for me? Considerations **Medications** - **Biguanides** (Metformin) Insulin Production (C peptide) SGLT-2 inhibitors (Canagliflozin, Empagliflozin, Weight Dapagliflozin, etc.) - Heart disease GLP-1s (Exenatide, Liraglutide, Dulaglutide, Semaglutide, etc.) Kidney disease - Sulfonylureas (Glipizide, Glyburide, etc.) - Liver disease - **DPP-4** inhibitors (Sitagliptin, Linagliptin, etc.) Risk of hypoglycemia Insulins - Gastrointestinal Side Effects Others... Level of Glycemia / Efficacy of Drug Route of administration Pregnancy plans



Insulin injections rarely hurt. They are just inconvenient.

- Cost
- Others

Not all people with diabetes need insulin, but...insulin is required if a person does not make insulin at all

Pharmacologic Approaches to Glycemic Management: Standards of Medical Care in Diabetes - 2020. Diabetes Care 2020;43(Suppl. 1):S98-S110

### What medication is right for me?

- **Biguanides (Metformin)** 
  - Mild Weight loss,
  - Diarrhea common
- SGLT-2 inhibitors (Canagliflozin, Empagliflozin, Dapagliflozin, etc.)
  - Mild-moderate weight loss, - Increased risk of diabetic ketoacidosis in insulin deficient patients,
  - Reduced risk of congestive heart failure by diuretic effect
- GLP-1s (Exenatide, Liraglutide, Dulaglutide, Semaglutide, etc.) Moderate weight loss.
- Nausea and vomiting, Pancreatitis?, Gallstones Sulfonylureas (Glipizide, Glyburide, etc.) Mild weight gain,
- DPP-4 inhibitors (Sitagliptin, Linagliptin, etc.) Weight neutral
- Pancreatitis?
- Insulins
  - Mild weight gain
  - Injectable

Overweight man with mild hyperglycemia and mild cirrhosis due to hemochromatosis? (plus Heart disease)??

MICHIGAN MEDICINE

- · Normal weight man with CF and mild hyperglycemia?
- Underweight woman moderate-severe hyperglycemia due to CF and a history of bowel obstructions?
- Normal weight man with history of total ٠ pancreatectomy following car accident?
- Overweight woman with a history of acute pancreatitis due to high triglycerides planning a pregnancy?

#### Ask your doctor which treatment is right for you!

Pharmacologic Approaches to Glycemic Management: MICHIGAN MEDICINE Standards of Medical Care in Diabetes - 2020. Diabetes Care 2020;43(Suppl. 1):S98-S110

# If I need insulin, do I <del>need</del> want an insulin pump?

An insulin pump is a lifestyle choice. No one has to have one. But if you need 4 times a day insulin injections, you may <u>want</u> one!



If you do require insulin, consider an insulin pump!

Diabetes Treatment- The Checklist
Treatment
Nutrition
Exercise
Sleep
No Smoking
Education
Immunizations
Monitoring
Medication
Targets
<b>Glucose</b> (A1C< 7.0%, Average glucose < 154 mg/dl, Time in Range >70%)
Blood Pressure (BP <135/85)
Cholesterol (On statin medication, LDL cholesterol < 100 mg/dl, < 70 mg/dl)
Screenings
Eye exams (Annually)
Kidney Labs (Creatinine < 1.2 mg/dl, Urine Microalbumin to Creatinine Ratio) < 30
Foot exams (Annually)

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# What else should I know about diabetes?

#### Alcohol

If you are on Sulfonylureas or Insulin, alcohol can cause serious low blood sugars.

#### Pregnancy

- High glucose around the time of conception causes birth defects. Women should use contraception until the A1c is at goal for pregnancy (A1c < 6.5%) and work to plan a pregnancy with a multidisciplinary team that includes an endocrinologist.

#### Insurance

- Diabetes is expensive and confusing! Get help navigating this if you need it!
- Michigan Law (Section 550.1416b) mandates coverage for diabetes testing supplies (and diabetes education.)
- Where can I get supplies? Durable Medical Equipment vs. Pharmacy benefit
- Understanding your policy- Co-pays Vs Co-insurance Vs Deductible
  - Co-pay- You pay a fixed amount for a 1 month supply of a medication every time. "My co-pay is always \$10."
  - Co-insurance- You pay a fixed another for a 1 month supply of a medication every time. My co-pay is always a to:
    Co-insurance- You pay the same % of the cost of a medication. "I pay 10% of the cost of any medication I buy."
    Deductible- I pay 100% of the cost of my medications, until I have paid X amount in the year, and then they are covered.

### Summary

- Diabetes is an elevation of blood glucose to harmful levels, due to insufficient insulin to process the supply of glucose.
- Pancreatic diabetes is unique, common but often not recognized.
- Many different pancreatic disorders cause diabetes.
- Talk to your doctor about
  - Any symptoms you might be having.
  - Your specific risk for complications and how to reduce the risks
- Ask for a referral to an RD/CDE with experience treating patients with malabsorption syndromes.
- Monitoring is important.



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# Summary

- Do all patients with pancreatic diabetes need insulin? Not all people with diabetes need insulin, but...insulin is required if a person does not make insulin at all. Even if they make some insulin, the best treatment choice may still be insulin.
- Ask your doctor which treatment is right for you!
- If you do require frequent insulin injections, consider an insulin pump!
- Understand your risks of alcohol.
- Make sure to plan your pregnancies with your doctor.
- Ask for help with navigating insurance and costs!
- Have diabetes checklist!

#### Thank you!

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- 1. Does pancreatic insufficiency mean you have chronic pancreatitis, or can you have pancreatic insufficiency without having pancreatitis?
- 2. How helpful are pancreatic digestive enzymes?
- 3. How do you know if pancreatic digestive enzymes are working for you?
- 4. What is the consequence of not taking pancreatic enzymes?

Erik-Jan Wamsteker, MD Division of Gastroenterology



# **Questions About Pancreatic Cysts** 1. How likely are pancreatic cysts called "IPMNs" [intraductal papillary mucinous neoplasms] to be cancerous? How aggressive should treatment be? 2. Why can't a pancreatic cyst be removed without doing a Whipple procedure [surgical removal of the head of the pancreas]? 3. Are there other surgeries or methods to fix or remove a pancreatic cyst other than the Whipple procedure [surgical removal of the head of the pancreas]? <u>Erik-Jan Wamsteker, MD</u> MICHIGAN MEDICINE

Division of Gastroenterology

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### Learning Objectives At the End of the Activity Attendees Will be Able to

- Recognize general causes of abdominal pain and pain associated with pancreatic disease
- Understand how organs and nervous system cause pain
- Review how nerve pain responds poorly to interventions
- Highlight non-interventional therapies for pain















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#### Georgiann Ziegler Pain & Diabetes – Patient Testimony

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.

#### CHALLENGES

*Diabetes due to pancreatitis*. Hearing the words "you have diabetes" was very difficult. There was so much to learn and understand about how to navigate life with diabetes. From nutrition to medications and how they help to maintain good blood sugar levels. For me, working/partnering with my endocrinologist has helped to control my diabetes.

*Pain management* and awareness has come with time during my pancreas journey. Being aware that there are many options and determining which option is best for me has been key. Here is an example of what I do at the onset of a pancreas flare. At the first sign of a pancreas flare I begin by reducing intake of food and beverage, using a heating pad and over the counter pain medications. If pain persists I advance to medications prescribed by my physician. If after a few days this does not help and pain radiates to my back, I know it is time to head to the hospital.

**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





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**HOW ARE YOU INVOLVED WITH NPF MICHIGAN:** I was approached 3 years ago by an NPF Michigan board member. I was honored to be asked to join a very important group. In addition to serving the board I am building relationships with others who 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!

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# PANCREATIC DISORDERS: IS THERE A ROLE FOR CANNABIS PRODUCTS?

4TH ANNUAL **Patient and Family Centered Care for PANCREATIC DISEASES** OCTOBER 17, 2020



**MICHIGAN MEDICINE** 

**John W Wiley, MD** Professor, Internal Medicine Division of Gastroenterology



# INTRODUCTION

Endocannabinoid receptors (CB1 and CB2), endocannabinoids (AEA and 2-AG) and their synthesis and degradation enzymatic pathways are robustly expressed throughout the body, and generally anti-inflammatory. Broadly speaking, CB1 receptors are predominant in neural tissue and CB2 in nonneural tissues, particularly immune cells.

#### ARE THC AND CANNABIS USEFUL TO TREAT PAIN IN PANCREATITIS?

#### NO

- ► Tetrahydrocannabinol (THC) Does Not Reduce Pain in Patients With Chronic Abdominal Pain in a Phase 2 Placebo-controlled Study (de Vries M et al. CG&H, 2017)
  - Caveat: Only 8 patients with chronic pancreatitis in treatment arm
- Single dose delta-9-tetrahydrocannabinol in chronic pancreatitis patients (CP): analgesic efficacy, pharmacokinetics and tolerability (de Vreis et al. Br. J. Clin Pharmacol., 2016)
  - A single dose of  $\Delta$ 9-THC was <u>not</u> effective in reducing chronic pain resulting from CP
- Cannabinoid receptor agonist namisol (THC) does <u>not</u> affect cytokine levels in chronic pancreatitis patients (Utomo WK et al. AJG, 2015)

#### Maybe

- ► Effects of Medical Cannabis on Use of Opioids and Hospital Visits by Patients With Painful Chronic Pancreatitis (Barlowe, TS et al. CG&H, 2019)
  - Medical cannabis <u>may</u> be an effective adjunctive therapy in treating the pain associated with chronic pancreatitis and either replace or minimize the need for chronic opioid therapy
  - Given the limitations and small sample size, this study should serve as a platform for future investigations on this topic

### CANNABINOIDS INEFFECTIVE FOR CANCER PAIN

(BOLAND EG, ET AL. BMJ SUPPORT PALLIAT CARE. 2020)

Meta-analysis of five studies of 1,442 adults that compared cannabinoids to placebo and other active agents for the treatment of cancer-associated pain

- No significant impact on cancer associated pain
- > Cannabinoids had higher rates of side effects: somnolence and dizziness

#### Limitations-

- Did not include all relevant studies
- Studies had different patients, interventions, comparators and outcomes

THE THERAPEUTIC EFFECTS OF CANNABIS AND CANNABINOIDS: AN UPDATE FROM THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING AND MEDICINE REPORT (ABRAMS, DI. EURO. J. OF INTERNAL MEDICINE, 2018)

16-member committee conducted extensive database search and considered 10,000 abstracts to determine their relevance

- ► Summary:
  - <u>Conclusive or substantial evidence</u> for effective treatment of pain (neuropathic) in adults; chemotherapy-induced nausea and vomiting; and spasticity associated with multiple sclerosis
  - ► <u>Moderate evidence</u> was found for secondary sleep disturbances
  - Limited, insufficient or absent evidence supporting improvement in appetite, Tourette syndrome, anxiety, posttraumatic stress disorder, cancer, irritable bowel syndrome, epilepsy and a variety of neurodegenerative disorders

#### A REVIEW OF HUMAN STUDIES ASSESSING CANNABIDIOL'S (CBD) THERAPEUTIC ACTIONS AND POTENTIAL (WHITE CM, CLINICAL PHARMACOL., 2019)

- ► One FDA approved CBD product (Epidiolex).
- Consistency and quality of the non–FDA-approved products vary markedly.
- CBD has been touted for many ailments for which it has not been studied, and in those diseases with evaluable human data, it generally has weak or very weak evidence.
- The control of refractory seizures (Dravet syndrome or Lennox-Gastaut syndrome) is a clear exception, with strong evidence of CBD's benefit.
- Acute CBD dosing before anxiety-provoking events like public speaking and the chronic use of CBD in schizophrenia are promising but not proven.
- CBD is not risk free, with adverse events (primarily somnolence and gastrointestinal in nature) and drug interactions. CBD has been shown to increase liver function tests and needs further study to assess its impact on suicidal ideation.



# **SUMMARY & FUTURE DIRECTIONS**

- Development of specific receptor agonists and antagonists and modulators of synthesis and degradation enzymatic pathways that work in a regionspecific manner is a rapidly growing area of research
- ► Role in chronic pancreatitis pain is equivocal and needs further study.
- There is an urgent need for discovery research involving endocannabinoids and phytocannabinoids at the basic and clinical levels because of the growing use of cannabis products and the need for non-opioid options to help manage pain, nausea and a variety of medical disorders. Example-NIH HEAL initiative.
- Some Prospective Alternatives for Treating Pain: The Endocannabinoid System and Its Putative Receptors GPR18 and GPR55 (Guerrero-Alba R et al. Front. Pharm., 2019)

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# MANTRA study: Moving the field forward

#### Comparison of two care models

- Solo Gastroenterologist (GE) provider
- Multidisciplinary clinics with GEs, GI psychologists, dietitians, behavioral physiotherapists and psychiatrists

#### **Multidisciplinary Clinics have**

- Greater symptom improvement
- Greater psychological well-being
- Lower cost for successful outcome
- Likely lower long term hospital costs

		Standard-care group (n=46)	Multidisciplinary- care group (n=98)	p value
	Health-care use in hospital (AU\$)			
	Median hospital cost per patient (IQR)	\$2421 (470-2485)	\$2485 (878-2895)	0.0085
	Average cost per primary outcome*	\$3136	\$2549	
	Health-care use outside hospital			
	Median number of visits to their GP for any reason	1 (1-3)	1 (0-2)	0.0072
	Number of patients who saw their GP for any reason	35 (76%)	52 (53%)	0-008
	Median number of visits to their GP for gut symptoms	0 (0-1)	0 (0-0)	0.015
	Number of patients who their GP for gut symptoms	16 (35%)	16 (16% )	0-013
	Blood tests	13 (28%)	5 (5%)	<0.0001
	Gastroscopy	7 (15%)	5 (5%)	0-041
	Colonoscopy	5 (11%)	4 (4%)	0.15
	Ultrasound	3 (7%)	1 (1% )	0.096
	Number of patients absent from work because of gut symptoms during follow-up	17 (37%)	25 (26%)	0.16
Data are n (%) unless otherwise stated. GP–general practitioner. *Calculated as total costs divided by the number of patients with primary outcomes.				
-	Table 6: Costs and health-care use			
-				

Basnayake C. et al. Lancet Gastroenterol Hepatol. 2020;5(10):890-899.

# Integrative Multidisciplinary Clinical Care

We are the Michigan Difference



2 GI psychologists fully integrated into the Division

Several GI registered dietitians available at multiple locations

MICHIGAN MEDICINE

# Who provides GI psychology services?

### At Michigan Medicine:



# Megan E. Riehl, PsyD



# Christina Jagielski, PhD, MPH

A GI psychologist is a clinical health psychologist who has completed additional training in gastroenterology. Most providers in psychogastroenterology have a doctoral degree with advanced training.






# Concerns With Managing Pain in Chronic Pancreatitis

Challenging to treat

Madan A, et al. J Healthc Qual, 2013. 35(5): p. 41-6.

- Historically, majority of patients treated with opioids
- Chronic opioid management has inherent addiction risk

   up to 25% of patients use opioids for nonmedical use
- ~40% of patients have opioid misuse concerns (Madan et al)







# **Psychological Interventions**

- Cognitive behavioral therapy (CBT)
- Gut-directed hypnotherapy
- Mindfulness techniques
- Acceptance and commitment therapy (ACT)





## Summary

- Your emotional health is just as important as your physical health
- Consider building an integrative team that includes a psychologist for managing your overall health.
- By addressing mood symptoms and having a variety of strategies to cope with pain your experience with pancreatitis can improve.



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### **Questions About Cannabis – Controlling Pain / Benefits?**

- 1. Is cannabis an effective method to control pain and improving appetite?
- 2. Does cannabis control abdominal pain in people with pancreatitis?
- 3. Is cannabis a good supplement to other pharmaceuticals for managing pain?



Questions About Cannabis – Formulation						
1. What is the best form of cannabis for pain control?						
2. Do CBD (cannabidiol) and THC (Tetrahydrocannabinol) need to be in equal parts to work properly?						
3. What is the trick of getting pain relief without getting high from THC (Tetrahydrocannabinol)?						
4. Is CBD (cannabidiol) oil or cannabis oil effective for pain due to chronic pancreatitis?						
5. How do you measure the "quality" of CBD (cannabidiol) oil?						
6. What is the difference between cannabis versus oxycodone for pain management?						
John Wiley, MD Division of Gastroenterology						













### **Questions About Pain – Causes**

- 1. What triggers the pain for patients with chronic pancreatitis, including those who have had pancreatic surgery years ago?
- 2. What is the cause of sudden onset of severe abdominal pain with high liver enzymes and often lipase values? Lab values remain high more than 24 hours, but pain resolves after ~1 hour.
- 3. Is pain always an indication to get labs in recurrent acute pancreatitis?
- 4. Is it gas that causes the pain? Any remedies?
- 5. Why does my pain worsen with physical activity? I have not been able to prevent pain by use of yoga, taking Motrin, hydrating, and resting in bed days before and after.

Matthew DiMagno, MD Division of Gastroenterology



### **Questions About Pain – Neuropathic Pain & "Burnout"**

Neuropathic pain

- 1. Why does abdominal pain sometimes persist after total pancreatectomy (phantom pain)?
- 2. Will patients with chronic pancreatitis always have some degree of pain?
- 3. How successful are spinal cord stimulators and peripheral nerve stimulators in the treatment of pain due to chronic pancreatitis? When should a patient look into getting a stimulator?

Cessation of pain or pain "burnout"

1. Does pain stop ("burnout") in patients with chronic pancreatitis and abdominal pain? Why?

Matthew DiMagno, MD Division of Gastroenterology

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