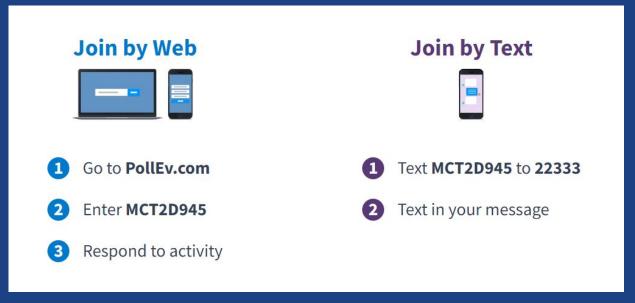
This evening we will be using Poll Everywhere to ask a few questions. Please take a few minutes to join the conversation now prior to the meeting starting. Complete either step below and you will be ready to participate.





### Welcome!

# MCT2D Fall Regional Meetings

Lauren Oshman, MD, MPH, FAAFP MCT2D Program Director



Liisa, PAB member
Prediabetic for many years,
diagnosed with T2D in Feb 2022

I don't know if it was my doctor's approach but it was what I needed, at the right time. It made all the difference.

In our first appointment, immediately, she says enough playing around. Your numbers have been going up and up and up. And it's time to take this serious. It was very emotional. I've never cried like that in a doctor's office before.

She put my name in for the diabetes education and started me on a prescription of Rybelsus. But it was the perfect conversation to have at the right time when I needed to make this change. So I'm grateful to it.



It was the perfect conversation to have at the right time when I needed to make this change.



Rybelsus and having the chance to make the right diet choices



Such a supportive family. I feel it. I'm on the receiving end of it this time.



### Year in Review

### Meetings

### **Spring Regional Meetings (April/May 2022)**

- First time convening practice clinical champions
- Introduced to the MCT2D Data Dashboards
- Discussed barriers and challenges amongst peers
- Learned about chronic kidney disease

#### **Collaborative Wide Meeting (June 2022)**

#### Available on YouTube!

- Convened physician organization leadership
- Shared best practices and implementation strategies from pilot/accelerated sites
- Keynote speaker (Dr. David Ludwig) presentation on low carbohydrate diets
- Demonstrated cost savings of SGLT2is/GLP-1RAs



### Year in Review

What We've Been Working On

### **Launching the Learning Community**

- Hosting educational events
- Learning Community Newsletter
- Learning from you (blog posts, patient stories, feedback)

### **Submitting Case Summaries**

Each MCT2D physician submitted a case summary about their experience with the initiatives. **We are using these case summaries for the following:** 

- Case examples
- Understanding needs (e.g. prioritized low carb resource creation based on feedback)
- Learning challenges with each initiative
- Demonstrating challenges to key stakeholders (e.g. insurers)



# Today's Agenda

#### 6:00pm - 6:15pm Welcome and Updates Lauren Oshman, MD MCT2D Program Director **Data Dashboard Updates** 6:15pm - 6:25pm Jake Reiss, MHSA Associate Program Manager **Regional Summary Statistics** Table discussions 6:25pm - 6:45pm **And Performance** N/A 6:45pm - 6:55pm Break

Topic





Endocrinology & Diabetes

Presenter

- Operationalizing a Low Carb Diet In Rina Hisamatsu, RDN MCT2D Dietitian Type 2 Diabetes

Time

7:55pm - 8:00pm Wrap Up & Closing Jackie Rau, MHSA MCT2D Program Manager Who is MCT2D?

**Coverage Wins** 

**Jumpstart Program** 

**New Tools** 

# **Updates**

### Who is MCT2D?

>300 15 14 1000+

Primary Care Nephrology Endocrinology Practices Practices Practices

Participating Physicians

Represented by

# 28 Physician Organizations



### **Steering Committee**



12 members, representatives from each stakeholder in MCT2D (POs, PCP practices, patients, endocrinology, & nephrology)

### **Patient Advisory Board**



Meetings bi-monthly ~12-14 regular attendees Invited to all regional and collaborative meetings

# **Expansions in CGM Coverage**



## **CGM Coverage Changes**

### Blue Cross Complete

#### **Old Criteria**

- 1) Treatment with insulin via a compatible infusion pump
- 2) Treatment with multiple daily doses of insulin requiring glucose testing 3 or more times per day and one of the following:
  - Persistently inadequate glycemic control defined as EITHER: HbA1C ≥ 7% on multiple consecutive readings with one being within the last 3 months OR frequent bouts of hypoglycemia.
  - Patient is unable or reluctant to test their blood glucose via traditional glucometer.
  - Patient is taking two or more medications to manage their diabetes.
  - Patient works with a care team member to improve diet and exercise choices

### **CGM Coverage Changes**

### Blue Cross Complete

#### **New Criteria**

Patient must have a diagnosis of diabetes AND Either Criteria #1 or one of the criteria under #2 must be met:

Criteria #1. Treatment with insulin (type 1 or type 2) OR

Criteria #2. Treatment of Type 2 diabetes with an antihyperglycemic drug without insulin. One of the following must be met:

- Frequent hypoglycemia, hypoglycemia unawareness, or concerns of nocturnal hypoglycemia
- Gaining weight (more than 5 pounds of weight gain in the last 12 months)
- HbA1C ≥ 7%
- Need for medication changes or titration
- Initiation of a lower carbohydrate diet

### **CGM Coverage Changes**

### United Healthcare

# DME Criteria and Criteria for non-MCT2D Physicians

- Diagnosis of diabetes requiring insulin
- Blood glucose testing at least 4x daily
- Insulin injections at least 3 x daily OR use of continuous insulin infusion pump
- Frequent adjustments to treatment regimen necessary based on glucose testing results
- Documented compliance to physiciandirected comprehensive diabetes management program

### **New Criteria for MCT2D Physicians**

- Ordered by an MCT2D member provider
- Patient has T2D diagnosis

**Great News**: United Healthcare will be adding NPs and PAs to the prior authorization removal. Stay tuned for more details!

# How to use Poll Everywhere

### **Join by Web**



- 1 Go to PollEv.com
- 2 Enter MCT2D945
- 3 Respond to activity

### **Join by Text**



- 1 Text MCT2D945 to 22333
- 2 Text in your message

Text MCT2D945 to 22333 once to join

# Have you submitted any CGM prescriptions for United Healthcare patients since the coverage change in mid-August?

Yes, and they went through without any issues

Yes, but there were issues with getting the CGM prescription without prior authorization

No







# HEALTHY EATING JUMPSTART

GROCERY DELIVERY PROGRAM

An MCT2D + HBOM + MSHIELD Initiative

### **PURPOSE**

To allow individuals diagnosed with Type 2 Diabetes who experience food insecurity or are low-income to have healthy, lower carb foods delivered to their home to promote healthy eating patterns.





### 3 Months of Shipt Healthy Choice Credits

\$240 of total food credits (\$80 per month)





# Multiple Options for Ordering

Online ordering can be done on computer or mobile device



# 12 Weeks of Education and Support

Via website, email, and print

### **JUMPSTART** practices in this region!



Holland Hospital Family Medicine - South Washington

### 12 WEEKS of lower carb lifestyle education

Each week participants will get meal plans, recipes, tips tools, and educational materials delivered directly to them.



### www.jumpstart.mct2d.org

Patient-focused website open to any patient curious about starting a lower carb lifestyle

- Build a custom low carb meal plan with recipes
- Learn about "Build Your Plate" through an interactive graphic
- Set specific dietary and lifestyle goals



### The 4-step process for building meals

The 4-step process is a simple way to start building balanced, low carb meals. Click on each step below to start building a meal.







### **New MCT2D Tools**

What we've been working on: new tools and resources!



# **MCT2D** Learning Community

The MCT2D Learning Community launched in May 2022 with opportunities to provide feedback on MCT2D developed tools, attend educational events, and contribute stories to the MCT2D blog, and the debut of the learning community newsletter.

### **Learning Community events have included:**

- Weight Loss Medications
   (Clinical Use and Medicaid Coverage Changes)
- Prior Authorization Panel
- CGM Implementation Panel

Six Game Changers in Implementing CGMs in Your Primary Care Practice

DME Hacke-like pliting by lowey your rops and enagging their customized ordering templates—abhoritus for Silling documentation in the EMR-and clase to getting CGMs covered for more of your patients, insights from our paniel of expert members, a recording of our September discussion, and additional resources to guide you. READ MORE >>

I have pretty much all diabetes in my practice. If you're seeing one of my patients, you better be putting one of these bad boys on Because if s a game changer in all this. And then a lot of folish come back and say, High, now! I want to do this:

--Panellist and Familly Nurse Practitioner

Prior Auth specialists have called this online tool "phenomenal" and "life changing." Are you using it?



Six key takeaways from our July
18th panel of Prior Authorization
experts (including recommended
tools), watch the recorded session,
and browse past learning
community webinars >>



Update on Anti-Obesity Medications (AOM's)



# What can the learning community do for you in 2023?

We want to host additional educational events and panels.

What topics are you interested in hearing about?



# What topics would you like to see covered at future learning community events?





# Patient Data Dashboard Updates and Demo

Jake Reiss, MHSA

MCT2D Associate Program Manager

### **Dashboard Enhancements**







Focusing on design and user experience



Data up to date through 6/30/2022



**Launched summary statistics** 



Later this year, addition of BCN claims data

### Future Directions: Data

Rel#	MCT2D Publish date		Paid claims data through	Clinical data through
	2/15/2023	Data Refresh	11/30/2022	11/30/2022
1	4/11/2023	Release 1 Enhancement & Data Refresh	12/31/2022	12/31/2022
8	5/4/2023	Data Refresh	2/28/2023	2/28/2023
2	6/19/2023	Release 2 Enhancement & Data Refresh	3/31/2023	3/31/2023
	8/4/2023	Data Refresh	5/31/2023	5/31/2023
3	9/21/2023	Release 3 Enhancement & Data Refresh	6/30/2023	6/30/2023
	11/7/2023	Data Refresh	8/31/2023	8/31/2023
4	12/14/2023	Release 4 Enhancement & Data Refresh	9/30/2023	9/30/2023

### User experience/design changes

- Planned enhancements
  - Patient exclusion tool to remove patients who should not be in the dashboard.
  - o Dashboard will be limited to patients at least 18 years old.
  - Actual medication names and strengths will be listed rather than just the medication class.
  - Prepopulated reports of common and relevant filtering.
  - Adding serum creatinine
- All payor PPQC data delayed- MDC determining an updated date this can be incorporated



# Discussion: Regional Reports

# **Discussion Question Suggestions**



Knowing that the insurance coverage for all of these patients are the same, why do you think we are seeing variability amongst regions?



The Bluegill region has the fewest patients who are not on any diabetes medications across the 7 regions of MCT2D (graph 8). Why do you think this may be?



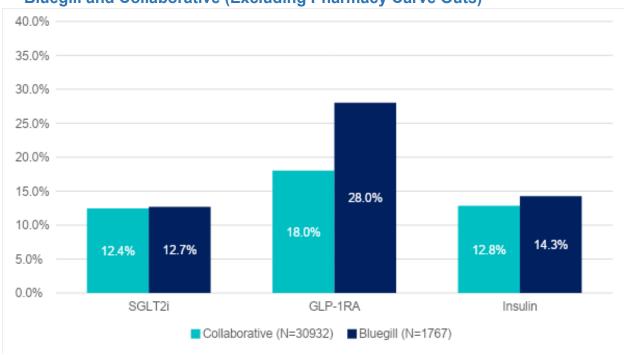
Looking at patients who are on no therapy or patients who are on therapy that is not guideline concordant (e.g. DPP4is and sulfonylureas), what ideas do you have to improve the use of SGLT2is and GLP-1RAs?

# MICHIGAN COLLABORATIVE FOR TYPE 2 DIABETES (MCT2D): Bluegill

#### **OVERVIEW**

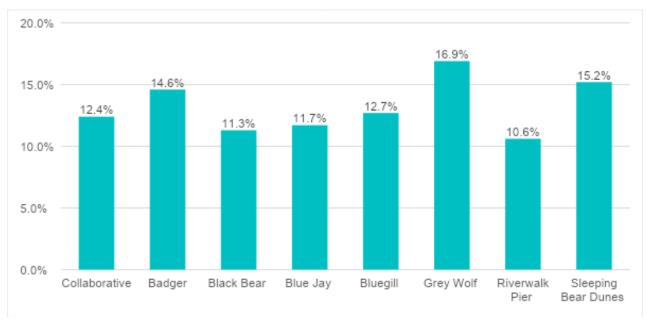
Collaborative level data includes any type 2 diabetes patient in participating practices who has been seen by a primary care physician (PCP) part of the Michigan Collaborative for Type 2 Diabetes (MCT2D). The patient population includes those who have a diagnosis code for type 2 diabetes, A1c of 6.5 or greater, and/or have been prescribed diabetes medication (ex. metformin, SGLT2i, GLP-1RA, insulin, sulfonylurea, etc.) The data is limited to just type 2 diabetes patients. Patients included must be covered by either Blue Cross Blue Shield Blue Care Network of Michigan (BCBSM) Preferred Provider Organization (PPO) or Medicare Advantage. The data in this report is preliminary and there are limitations. For instance, medication data is not available for patients with pharmacy carve outs; therefore, medication rates may be underestimated. The time frame used was from January 1, 2021 until June 30, 2022.

1. Comparison of Prescribing Rates of SGLT2i, GLP-1RA, and Insulin Between Bluegill and Collaborative (Excluding Pharmacy Carve Outs)



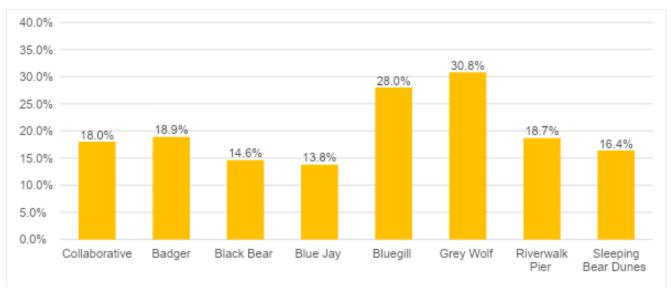
<sup>\*</sup>The denominator used to calculate the medication prescribing rates was the number of unique patients (N=30,932) part of MCT2D. The patients included must be covered by either BCBSM PPO or Medicare Advantage. Data is currently unavailable for patients with other insurance coverage. The data also excludes pharmacy carve outs. For the Bluegill bars, the denominator used to calculate the medication prescribing rates was the number of unique patients (N=1,767) part of the Bluegill region of MCT2D.

### 2. Comparison of Prescribing Rates of SGLT2i Across MCT2D Regions (Excluding Pharmacy Carve Outs)



<sup>\*</sup>The denominator used to calculate the medication prescribing rates was the number of unique patients (N=30,932) part of MCT2D. For each region, the denominator used to calculate the medication prescribing rates was the number of unique patients part of the region (Badger: N=3,103, Black Bear: N=9,829, Blue Jay: N=6,323, Bluegill: N=1,767, Grey Wolf: N=3,126, Riverwalk Pier: N=5,156, Sleeping Bear Dunes: N=1,628).

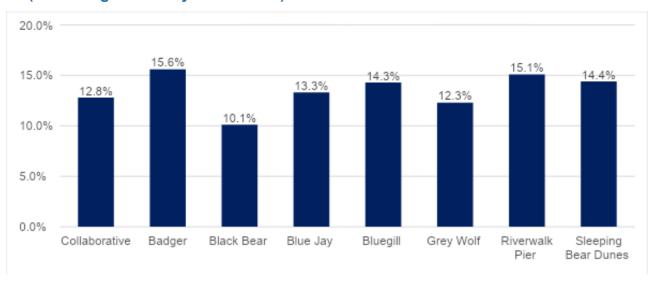
### 3. Comparison of Prescribing Rates of GLP-1RA Across MCT2D Regions (Excluding Pharmacy Carve Outs)



<sup>\*</sup>The denominator used to calculate the medication prescribing rates was the number of unique patients (N=30,932) part of MCT2D. For each region, the denominator used to calculate the medication prescribing rates was the number

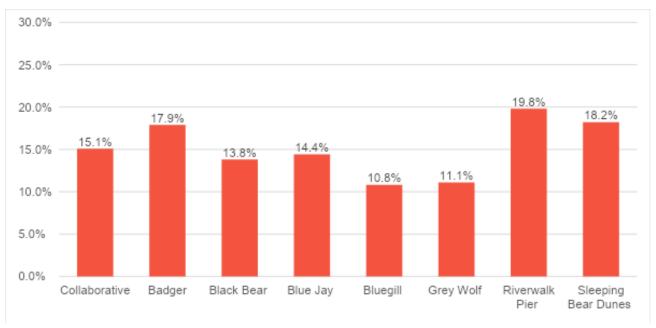
of unique patients part of the region (Badger: N=3,103, Black Bear: N=9,829, Blue Jay: N=6,323, Bluegill: N=1,767, Grey Wolf: N=3,126, Riverwalk Pier: N=5,156, Sleeping Bear Dunes: N=1,628).

### 4. Comparison of Prescribing Rates of Insulin Across MCT2D Regions (Excluding Pharmacy Carve Outs)



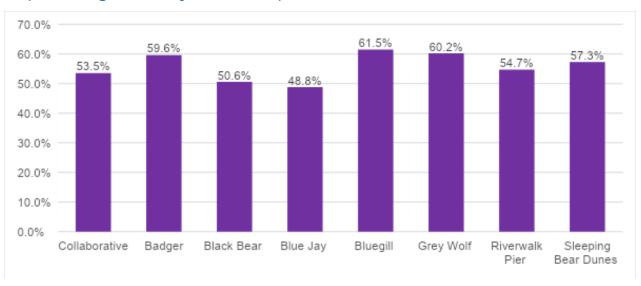
\*The denominator used to calculate the medication prescribing rates was the number of unique patients (N=30,932) part of MCT2D. For each region, the denominator used to calculate the medication prescribing rates was the number of unique patients part of the region (Badger: N=3,103, Black Bear: N=9,829, Blue Jay: N=6,323, Bluegill: N=1,767, Grey Wolf: N=3,126, Riverwalk Pier: N=5,156, Sleeping Bear Dunes: N=1,628).

### 5. Comparison of Prescribing Rates of Sulfonylurea Across MCT2D Regions (Excluding Pharmacy Carve Outs)



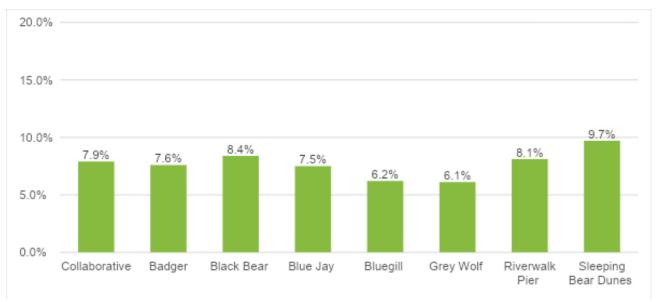
\*The denominator used to calculate the medication prescribing rates was the number of unique patients (N=30,932) part of MCT2D. For each region, the denominator used to calculate the medication prescribing rates was the number of unique patients part of the region (Badger: N=3,103, Black Bear: N=9,829, Blue Jay: N=6,323, Bluegill: N=1,767, Grey Wolf: N=3,126, Riverwalk Pier: N=5,156, Sleeping Bear Dunes: N=1,628).

### 6. Comparison of Prescribing Rates of Metformin Across MCT2D Regions (Excluding Pharmacy Carve Outs)



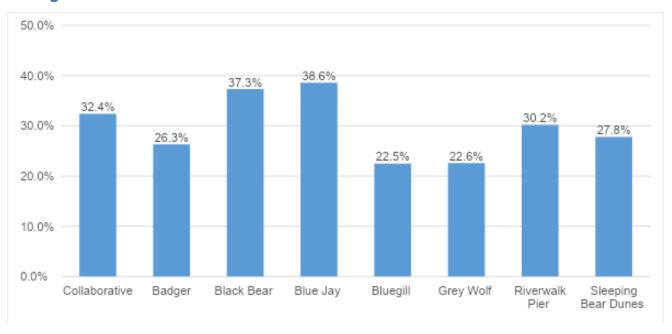
\*The denominator used to calculate the medication prescribing rates was the number of unique patients (N=30,932) part of MCT2D. For each region, the denominator used to calculate the medication prescribing rates was the number of unique patients part of the region (Badger: N=3,103, Black Bear: N=9,829, Blue Jay: N=6,323, Bluegill: N=1,767, Grey Wolf: N=3,126, Riverwalk Pier: N=5,156, Sleeping Bear Dunes: N=1,628).

### 7. Comparison of Prescribing Rates of Dipeptidyl Peptidase 4 Inhibitors (DPP4i) Across MCT2D Regions (Excluding Pharmacy Carve Outs)



\*The denominator used to calculate the medication prescribing rates was the number of unique patients (N=30,932) part of MCT2D. For each region, the denominator used to calculate the medication prescribing rates was the number of unique patients part of the region (Badger: N=3,103, Black Bear: N=9,829, Blue Jay: N=6,323, Bluegill: N=1,767, Grey Wolf: N=3,126, Riverwalk Pier: N=5,156, Sleeping Bear Dunes: N=1,628).

#### 8. Percentage of Patients Not On Any Diabetes Medication Across MCT2D Regions



<sup>\*</sup>The denominator used to calculate the medication prescribing rates was the number of unique patients (N=30,932) part of MCT2D. For each region, the denominator used to calculate the medication prescribing rates was the number of unique patients part of the region (Badger: N=3,103, Black Bear: N=9,829, Blue Jay: N=6,323, Bluegill: N=1,767, Grey Wolf: N=3,126, Riverwalk Pier: N=5,156, Sleeping Bear Dunes: N=1,628).



#### **Diving Deeper**

## Operationalizing a Low Carb Diet in Type 2 **Diabetes**

Rina Hisamatsu, MPH RDN
Registered Dietitian, Domino's Farms
Family Medicine
Health Educator, MCT2D
rinhis@med.umich.edu

#### **Overview**

O1 MCT2D core goals and the low-carb initiative

Fundamentals of the low-carbohydrate lifestyle

03 Identifying Suitable Patients

04 Case examples



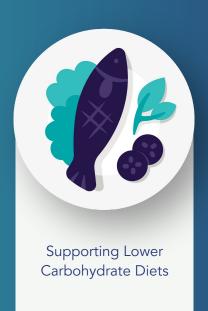
#### The Michigan Collaborative for

## **TYPE 2 DIABETES**



#### MCT2D Quality Improvement Goals







#### **Focus for Today**



How to integrate low-carbohydrate meal plans as an effective means of blood sugar control

# Variations Of The Low-Carbohydrate Meal Plan

#### Very Low Carbohydrate (Keto) Diet

- ≤10%
- 20-50g carbs/day

Based on 2000 kcal/day

## Low Carbohydrate Diet

- >10-26%
- 50-130g carbs/day

#### Moderate Carbohydrate Diet

- 26-45%
- 130-225g carbs/day

#### High Carbohydrate Diet

- >45%
- >225g carbs/day

# Fundamentals of The Low-Carbohydrate Lifestyle

## A Well-Formulated Low-Carbohydrate Meal Plan...



Prioritizes protein intake



Includes an abundance of non-starchy vegetables



#### A Well-Formulated Low-Carbohydrate Meal Plan





**Low Carbohydrate Foods** 

High Carbohydrate Foods

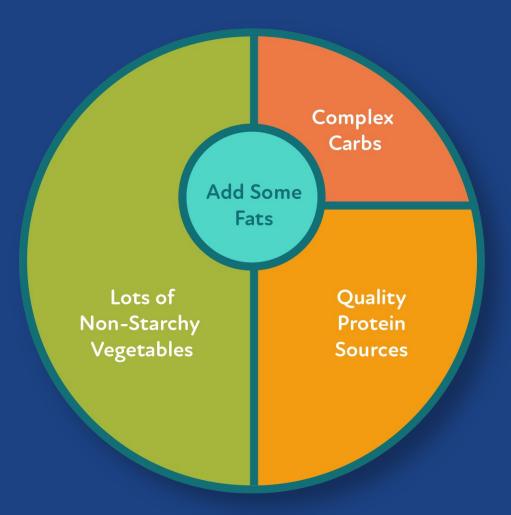
# The Step Process (3 step)

- Very low-carbohydrate meal plan
- <50g total carbohydrates/day</li>
  - 1) Pick a protein source
  - 2) Add non-starchy vegetables
  - 3) Add some fats



# The Step Process (4 step)

- Low carbohydrate meal plans
- 50-130g total carbohydrates/day
  - 1) Pick a protein
  - 2) Add non-starchy vegetables
  - 3) Add some fats
  - 4) Add some complex carbs



#### **Summary**

STEP 1: Pick a Protein STEP 2: Add Non-Starchy Vegetables (Half your plate)

STEP 3: Add Some Fats STEP 4: Add 1-2 Servings of Complex Carbs

Choose a highquality protein source like chicken, fish, seafood, beef, eggs, or soy. Fill half your plate with non-starchy vegetables like salad greens, broccoli, or Brussels sprouts. Add some fats from oil, sauces, or full-fat dairy like cheese, butter or sour cream.

Include 1-2 servings of high-quality carbs like starchy vegetables, fruits, legumes/lentils or whole grains.







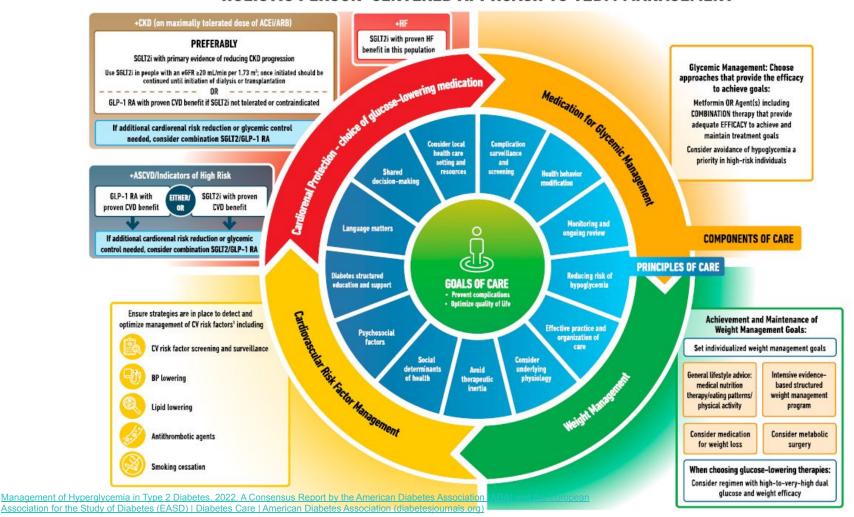








#### HOLISTIC PERSON-CENTERED APPROACH TO T2DM MANAGEMENT



# Modifying Meal Plans to Fit Dietary Restrictions And Cultural Preferences

#### **Pescatarian**

- Includes fish and shellfish
- Includes soy, nuts and seeds, legumes/lentils\*

#### Vegetarian/Vegan

- Includes soy, nuts and seeds, legumes/lentils\*
- +/- eggs and dairy products

\*Legumes/lentils can be added based on individual carb goals

Adapting to cultural food preferences including:

Hispanic cuisine

South Asian cuisine

East Asian cuisine

## Case Example A



Working together with care team to reach individualized carbohydrate goal

# Case Example A: Ted

40 y.o. M, with PMH of T2D, obesity, HTN, TIA (2019)

Established care 1 year ago at Diabetes Clinic with following baseline:

Starting weight: 342 lbs, BMI 47.7

- Hemoglobin A1c: 6.6%

- FBGs: 120s range

Medications: Victoza (d/c prior to initial eval at clinic), Januvia, Lisinopril, Metformin, Aspirin



## Intervention

- Initiated GLP1-RA (Ozempic, escalated dose from 0.25mg to 1mg over 4-5 mo)
- 2. Education on low-carbohydrate meal plan
  - a. Recommended ≤100g carbs/day
  - b. 5 Ps to avoid (Pastas, regular Pop, Pastries, Potatoes, b(B)read)
  - c. Focus on: lean meats, non starchy vegetables 50/50 plate method
- 3. Physical activity goals discussed
  - a. Weight lifting to preserve muscle mass



## Within 1 year...

- **★** Medication Reduction:
  - o D/C metformin, Januvia, Lisinopril
- **★** Weight Reduction:
  - $\circ$  104 lbs total: 342  $\to$  238 lbs (BMI 47.7  $\to$  33.2)
  - Lost 7 lbs in 1 mo, 18 lbs in 2 mos, 59 lbs in 5 mos
- ★ A1c Reduction:
  - 6.6% → 5.4% (at most recent visit)
- ★ FBGs Improvement: <90 mg/dL





### **Patient Quotes**

"[I'm] eating smaller, more frequent meals, and increasing lean proteins and vegetables."

"[I'm] feeling great - receiving compliments from family and friends has been motivating."



#### **Delicious Ways to Enjoy Low-Carb Meals**









# Sample Meal Plan (Low Carb 50-130g)

SUNDAY Breakfast	Lunch	Dinner
3 egg omelet with ½ cup diced vegetables (peppers, onion, mushroom, tomatoes), and 1oz shredded cheese 1 slice whole wheat bread or 1	Wrap sandwich (8 inch low carb wrap, 4-5oz turkey, cheese, spinach, tomato, and onion). Add mustard, pickles, mayo, and seasoning as desired	2 cups spaghetti squash* topped with ½ cup low carb tomato sauce, 4-5oz ground beef, and 1 cup sautéed non-starchy vegetables
cup mixed berries	Optional: add 1oz nuts for crunch or avocado	Optional: add grated Parmesan *Note: Can also use high-protein, low carbohydrate pasta
Total carbs: 20-25g	Total carbs: 25-30g	Total carbs: 40g

TUESDAY Breakfast	Lunch	Dinner
Baked avocado cups (cut avocado in half, add 1 egg to center of each half, then bake at 425 degrees for 15-20 min) 1 piece of fruit (1 small apple, plum, kiwi, 1 cup cantaloupe, 1 cup berries)	Lettuce wraps (2-3 large lettuce leaves topped with 4-5 oz turkey or chicken, 2 tbsp hummus, diced tomato, onion, and 1oz pumpkin seeds)	2 cups lentil soup (brown lentils, onions, garlic, diced carrots, zucchini, celery, mushrooms)  Chia pudding (mix 1 tbsp chia seeds, ½ cup coconut cream, and a dash of stevia. Let sit overnight)  You can make these in batches!
Total carbs: 30g	Total carbs: 20g	Total carbs: 43g

MONDAY Breakfast	Lunch	Dinner
% cup plain Greek yogurt topped with 1oz mixed nuts, 1 cup berries or 1 piece fruit (1 small apple, plum, kiwi, 1 cup cantaloupe)	2-3 cups mixed greens topped with 4-5oz tuna or other canned fish, ½ cup chickpeas, diced cucumber, tomato, onion, pickles, olives, avocado, and feta or shredded cheese  Serve with 2 tbsp ranch dressing or lemon and olive oil vinaigrette	Chicken Alfredo (whole grain fettuccine with 4-5oz chicken grilled, ½ cup Alfredo sauce, and 2oz (dried) whole grain fettuccine)  Serve with side salad (dressing full-fat or olive oil and vinegar)
Total carbs: 25g	Total carbs: 25g	Total carbs: 50g

WEDNESDAY Breakfast	Lunch	Dinner
Farmer's breakfast made with 2 slices bacon or other breakfast meats 1-2 eggs, cooked in any style	Burrito bowl made with 1 cup cauliflower rice, 4-5oz taco meat, 1 cup sautéed vegetables, ½ cup black beans, 2 tbsp salsa, and 1 tbsp sour cream	4-5oz Grilled/baked fish 2 cups baked/grilled non-starchy vegetables sprinkled with 1oz mixed nuts
½ cup sautéed spinach or other greens	1 small fruit	½ cup sautéed corn or 1 small baked sweet potato
1 slice whole grain toast		Optional: add 1 tbsp sour cream or butter
Total carbs: 20g	Total carbs: 42g	Total carbs: 32g

## Sample Meal Plan (Very-Low Carb <50g)

SATURDAY Breakfast	Lunch	Dinner
Egg bites (whisk together 2-3 eggs, with chopped onion, peppers, tomato, spinach, mushrooms, herbs and spices, 1-2 oz cheese of choice. Pour mixture into muffin tin and bake at 350 degrees for 15-20 min or until set)	1 cup tuna salad/chicken salad/egg salad  Serve over 2 cups of mixed leafy greens or make into a wrap or sandwich using low carbohydrate bread.  Optional: 1 oz cheese or nuts	4-5 oz steak  Roasted brussel sprouts with crushed bacon  1 cup mashed cauliflower with garlic and parsley
Total carbs: 5g	Total carbs: 10g (26g with wrap)	Total carbs: 15g

SUNDAY Breakfast	Lunch	Dinner
3 egg omelet with ½ cup diced vegetables (peppers, onion, mushroom, tomatoes), and 1oz shredded cheese ½ cup sliced strawberries	Wrap sandwich (8 inch low carb wrap, 4-5oz turkey, cheese, spinach, tomato, and onion). Add mustard, pickles, mayo, and seasoning as desired	2 cups zucchini noodles topped with ½ cup low carbohydrate tomato sauce, 4-5oz ground beef, and 1 cup sauteed non-starchy vegetables  Optional: add grated Parmesan
Total carbs: 10g	Total carbs: 25g	Total carbs: 15g

TUESDAY Breakfast	Lunch	Dinner
34 cup plain Greek yogurt topped with 1 oz chopped almonds, 1/2 cup mixed berries	Lettuce wraps (2-3 large lettuce leaves topped with 4-5oz ground turkey or chicken, diced tomato, and ½ diced avocado, ¼ cup shredded cheese, 2 tbsp ranch dressing)	<b>Meatloaf</b> made with sugar-free BBQ glaze, 1 cup sauteed green beans, 1 cup cauliflower mash
Total carbs: 18g	Total carbs: 10g	Total carbs: 18g

WEDNESDAY Breakfast	Lunch	Dinner
Farmer's breakfast made with 2 slices bacon or other breakfast meats 2 eggs, cooked in any style ½-1 cup spinach or other greens sauteed with garlic ½ cup berries	Burrito bowl made with 1.5 cups cauliflower rice, 4-5 oz taco meat, 1 cup sauteed vegetables, 2 tbsp salsa, 1 tbsp sour cream, 1 tbsp guacamole	4-5 oz grilled fish 2 cups sauteed non-starchy vegetables sprinkled with 1 oz walnuts
Total carbs: 12g	Total carbs: 17g	Total carbs: 10g

## **Identifying Your Patients**

## Taking The First Step

- Identify "low-risk" patients: not on insulins, sulfonylureas, SGLT2i's
- 2. Patients with high engagement/interest in pursuing a low carb lifestyle



## **Avoiding Potential Risks**

#### 1) Hypoglycemia

Monitor and adjust blood sugar lowering medications (insulin/combination insulins, sulfonylureas, SGLT2is etc.)

#### SGLT2-inhibitors

- DO NOT USE: If daily carb intake <50 grams due to risk of euglycemic DKA
- Safe in patients consuming >100 grams of carbs daily

#### 2) Hypotension

Monitor BP for all patients

TREAT hypotension: adjust medications as needed

MONITOR for hyponatremia: consider medication adjustment, comorbidities, hydration status

# Adapting Medications for Type 2 Diabetes to a Low Carb Diet



Look for this handout!

#### SAFE



- Biguanides
- GLP1 Agonists
- DPP4 Inhibitors

#### REDUCE



- Basal long acting insulins— may need to reduce dose by up to 50%. Follow blood sugars and adjust as needed
- Thiazolidinediones

#### STOP



- Sulfonylureas
- Meglitinides
- SGLT2 inhibitors
- Bolus meal time insulin. Might need small amounts to correct high blood sugar.
- Combination insulins (70/30) switch to basal long acting
- Alpha-glucosidase inhibitors

## Recognizing Challenges

- **★** Time constraints
- ★ Availability for clinicians to cover in routine visits
- ★ Access to clinic resources (MAs, RNs, RDs, Pharmacists, Care Navigators etc.)

## Resources and Teaching Tools

- MCT2D Resource Library
- Diet Doctor Free CME course
- <u>Low-Carbohydrate and Very Low-Carbohydrate Eating</u>
   Patterns in Adults with Diabetes: A Guide for Health Care Providers (ADA)
- The Art and Science of Low Carbohydrate Eating
- Low Carb For Any Budget Cooking Keto With Kristie
- Always Hungry? by Dr. David Ludwig
- Diet Doctor

## Case Example B



Strategies to mitigate potential risk from medications

Team-based care

# Case Example B: Fred

69 y.o. M with hx of T2D, dx in 2007 (or possibly earlier)

Started low-carb + CGM program in 7/2022 with following baseline:

- Starting weight: 235 lbs, BMI 35
- Hemoglobin A1c: 7.7%

Medications: Insulin glargine: 30 units twice daily, Insulin aspart: 5 units B/L/D, Dulaglutide: 3mg weekly

Patient counseled to keep total carbs ≤100g per day



#### MEDICATIONS:

\_\_\_\_\_

Insulin glargine: 30 units twice daily
Insulin aspart: 5 units B/L/D

Dulaglutide 3mg weekly

## Within 1 Month of Program...

- ★ Discontinued insulin aspart
- ★ Insulin glargine: 30U bid → 20U qd
- ★ 10 lb weight loss (235  $\rightarrow$  225)
- ★ Reduced BP meds
- ★ CGM time in range ~85%
- ★ Patient reports "feeling great"



## **Key Takeaways**

- 1) Using CGM data, pt able to make real-time connections between food and its effect on blood glucose.
- Pt felt empowered by results from low-carb lifestyle: weight loss, de-escalation of meds, improved blood glucose control.





## Thank you!

Questions/ Concerns?

rinhis@med.umich.edu

#### References

- Sainsbury E, Kizirian NV, Partridge SR, Gill T, Colagiuri S, Gibson AA. Effect of dietary carbohydrate restriction on glycemic control in adults with diabetes: A systematic review and meta-analysis. Diabetes Res Clin Pract. 2018 May;139:239-252. doi: 10.1016/j.diabres.2018.02.026. Epub 2018 Mar 6. PMID: 29522789.
- Saslow, L.R., Daubenmier, J.J., Moskowitz, J.T. *et al.* Twelve-month outcomes of a randomized trial of a moderate-carbohydrate versus very low-carbohydrate diet in overweight adults with type 2 diabetes mellitus or prediabetes. *Nutr & Diabetes* 7, 304 (2017). https://doi.org/10.1038/s41387-017-0006-9
- Hallberg, S.J., McKenzie, A.L., Williams, P.T. *et al.* Effectiveness and Safety of a Novel Care Model for the Management of Type 2 Diabetes at 1 Year: An Open-Label, Non-Randomized, Controlled Study. *Diabetes Ther* 9, 583–612 (2018). <a href="https://doi.org/10.1007/s13300-018-0373-9">https://doi.org/10.1007/s13300-018-0373-9</a>
- Griauzde DH, Standafer Lopez K, Saslow LR, Richardson CR. A Pragmatic Approach to Translating Lowand Very Low-Carbohydrate Diets Into Clinical Practice for Patients With Obesity and Type 2 Diabetes. *Front Nutr.* 2021;8:682137. Published 2021 Jul 19. doi:10.3389/fnut.2021.682137
- Volek JS and Phinney SD. The Art and Science of Low Carbohydrate Living. Monee, IL, Beyond Obesity LLC. 2011. ISBN-13: 9780983490708

#### References

- Hamdy, O., Ganda, O. P., Maryniuk, M., Gabbay, R. A., & Members of the Joslin Clinical Oversight Committee (2018). CHAPTER 2. Clinical nutrition guideline for overweight and obese adults with type 2 diabetes (T2D) or prediabetes, or those at high risk for developing T2D. *The American journal of managed care*, *24*(7 Spec No.), SP226–SP231.
- Clinical Guidelines For the Prescription of Carbohydrate Restrictions as a Therapeutic Intervention/Low Carb USA International Scientific and Clinical Advisory www.lowcarbusa.org/standard-of-care/clinical-guidelines/
- Low-Carbohydrate Nutrition Approaches in Patients with Obesity, Prediabetes and Type 2
  Diabetes Low Carb Nutritional Approaches Guidelines Advisory (guidelinecentral.com)
- Management of Hyperglycemia in Type 2 Diabetes, 2022. A Consensus Report by the American Diabetes Association (ADA) and the European Association for the Study of Diabetes (EASD) | Diabetes Care | American Diabetes Association (diabetesjournals.org)



## Closing

Jackie Rau, MHSA

MCT2D Program Manager

**Value Based Reimbursement requirements** for Year 2

**MCT2D Learning Community** 

# Next Steps for MCT2D

First Official Year Coming to a Close

#### In that time we:

- Trained 601 MCT2D clinical champions and physicians on SGLT2i/GLP1RAs, low carbohydrate diets, and continuous glucose monitors
- Hosted 7 regional meetings and 1 collaborative wide meeting totaling over 247 attendees
- Began deploying the MCT2D interventions with patients in the practices, identifying barriers and challenges
- Shared best practices amongst collaborative members through the panels on prior authorization and CGMs.

We will be distributing a progress survey as one of the program requirements in December (due 2/1/23) to learn more about how the first year went for your practice



## Year 2 VBR

Requirement	Responsibility
Ongoing Learning Community Requirement: Participate in one learning community activity for each of the two engagement levels.  Details below. Due 7/15/2023	Level 1: Each physician Level 2: Each PO/Each Practice
Complete Progress Survey (due 2/1/2023)	Practice
Work with your physician organization to maintain a log of practice interventions and changes related to implementation of the quality initiatives	Practice
Identify and submit one best practice related to continuous glucose monitoring, low carbohydrate diet, prescribing SGLT2s or GLP1s, or urine albumin testing (Due 5/1/2023).	Practice
Distribute patient reported outcomes survey flyers and encourage patient participation.	Practice
Learn about coverage for your primary payor via MCT2D developed videos and materials and take a short post-test to confirm understanding.	Practice
Attend Fall 2022 and Spring 2023 regional meetings	Practice clinical champion
Present on your site's implementation of the quality improvement initiatives at a collaborative meeting, regional meeting, or conference call, if requested	Practice

# **Learning Community Newsletter**

- Began distributing learning community newsletter in May
- Five editions out now, will continue sending these monthly to all clinical champions and all who subscribe
- Encourage subscriptions from your other providers in the clinic
- Will distribute tools through this, announce learning opportunities, etc.
- Where blogs will be posted, etc.

Link to subscribe: michmed.org/e8X8N



#### WELCOME

to the <u>Michigan Collaborative for Type 2 Diabetes (MCT2D)</u> Learning Community Newsletter. This monthly digest will keep you informed on upcoming events, key requirement reminders, patient perspectives, new tools and support from MCT2D, and opportunities to network, learn, and grow as a member of the collaborative.

Subscribe to our Newsletter

## Table of Contents

- 1. Meet Rina, MCT2D Dietician
- 2. <u>NEW Tool Alert</u> Patient-Friendly Low Carb Starter Guide and Anti-Obesity

Madigation Coverage Cuid

## Are you *Always Hungry* for dietician support?

In this month's newsletter, we're debuting new patient resources for lower carb diets, office hours with MCT2D's dietitian, and details about our June 2022 All



## Thank you!

We appreciate you joining us today and for your work improving care for patients with T2D!