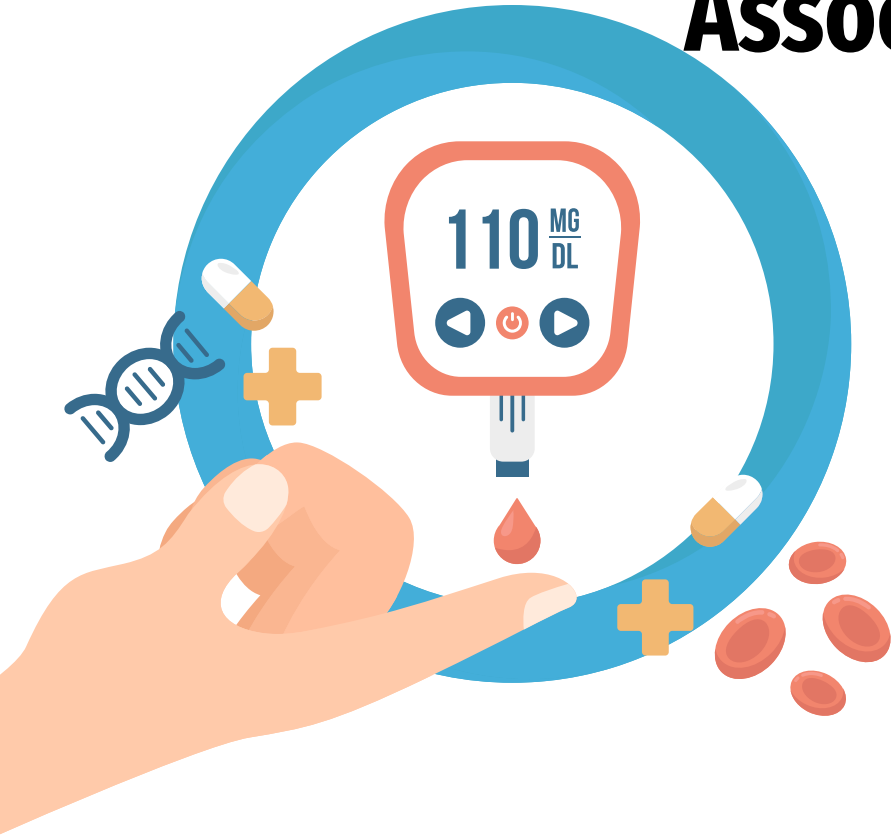


# 2023 American Diabetes Association (ADA) Standards of Care



Courtney McVey, PharmD, MBA  
Primary Care Pharmacist -Helen Hunt  
Health Center  
Samantha Rollins, PharmD  
PGY1 Community Resident  
Penobscot Community Health Care

# Presenter Disclosures

- The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:
  - I have no conflicts of interest to disclose



# Learning Objectives

## **Pharmacist Objectives:**

1. Describe lifestyle modifications and preventive screenings recommended in patient's with diabetes.
2. Review updated ADA guideline recommendations including new patient specific factors and new FDA- approved medications
3. Formulate patient centered treatment plans for people with diabetes
4. Discuss diabetic supplies including new continuous glucose monitoring devices and insulin pumps
5. Discuss comorbid complications including chronic kidney disease and updated lipid management recommendations.

## **Technician Objectives:**

1. Describe lifestyle modifications and preventive screenings recommended in patient's with diabetes.
2. Review updated ADA guideline recommendations including new patient specific factors and new FDA- approved medications
3. Formulate patient centered treatment plans for people with diabetes
4. Discuss comorbid complications including chronic kidney disease and updated lipid management recommendations.

# Social Determinants of Health

Socioeconomic status	Neighborhood and physical environment	Food environment	Health care	Social context
Education	Housing	Food security	Access	Social cohesion Social capital Social support
Income	Built environment	Food access	Affordability Quality	
Occupation	Toxic environmental exposures	Food availability		



# Lifestyle Modifications

## Self Care:

- Self monitoring: Glucose, Continuous Glucose Monitoring
- Blood pressure checks (home)
- Routine foot inspection (daily)
- Hypoglycemia awareness
- A1c (every 3 to 6 months)
- Vaccinations
- Dilated eye exam (annual)
- Comprehensive foot exam (annual)
- Mental health screenings (annual)

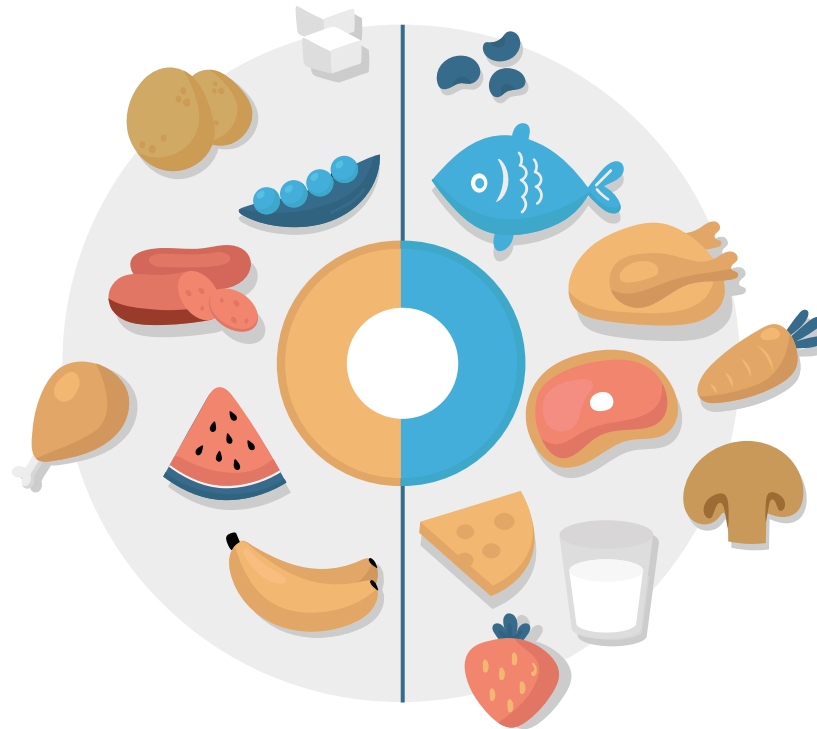
## Lifestyle:

- Diabetes self-management education
- Healthy eating
- Physical activity
- Sleep behavior
- Weight management
- Tobacco, alcohol, substance use



# Nutrition Is As Effective As Some Medications

All providers should refer people with diabetes for individualized medical nutritional therapy (MNT) provided by a registered dietitian nutritionist (RD/RDN) who is knowledgeable and skilled in providing diabetes-specific MNT at diagnosis and as needed throughout the life span.



MNT is associated with A1C absolute decreases of 1.0-1.9% for people with type 1 diabetes and 0.3- 2.0% for people with type 2 diabetes.



# Exercise

## **Sitting / Breaking Up Prolonged Sitting**



- Break prolonged sitting every 30 minutes
- Short bouts of walking
- Simple resistance exercise

## **Stepping**



- Increasing 500 steps per day associated with 2-9% decreased risk of CVD and all-cause mortality

## **Sleep**



- Aim for consistent, uninterrupted sleep
- Quantity: 6-8 hours
- Quality: irregular sleep results in poorer glycemic levels (insomnia, obstructive sleep apnea, restless leg syndrome, etc.)
- Chronotype: night owls vs. early bird



## **Physical Functional/Frailty/Sarcopenia**

- Frailty phenotype in T2D unique
- Earlier age

## **Sweating (Moderate to Vigorous Activity)**



- 150 + mins/week of moderate-intensity physical activity
- Or  $\geq$  75 mins/week vigorous-intensity activity
- Spread over  $\geq$  3 days/week
- No more than 2 consecutive days of inactivity
- Include resistance, flexibility, balance sessions

## **Strengthening**



- Resistance exercise
- Improves insulin sensitivity
- Tai chi, yoga improve flexibility & balance

# Weight Management

- Promotion of lifestyle changes
- Use of obesity pharmacotherapy (e.g. glucagon like peptide-1 (GLP-1) agonists)
- Bariatric surgery
- Non-surgical weight loss referral
- Labs: lipids, A1c, glucose, fasting insulin, HOMA-IR
- Smart scales- look at visceral fat, subcutaneous fat, water, muscle mass, etc.

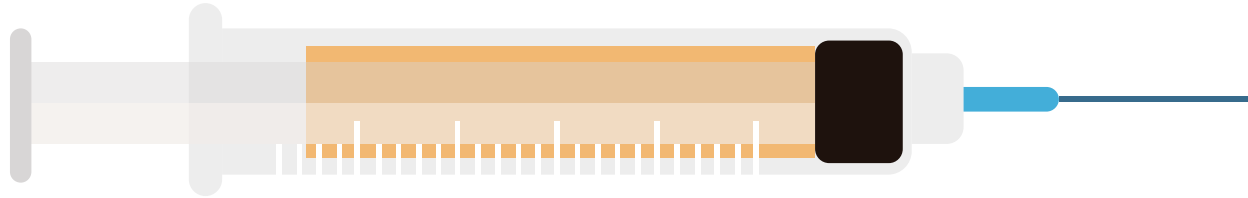


# Non-Alcoholic Fatty Liver Disease (NAFLD)

- **Risk factors:** obesity, sleep apnea, type 2 diabetes, metabolic syndrome, polycystic ovary syndrome, high cholesterol and/or triglycerides
- **Management:** diet, weight loss (Goal of at least 5%, preferably > 10%), exercise, surgical and non surgical weight loss
- **Pharmacotherapy**
- Pioglitazone (not FDA approved)
- Some GLP-1 RA (not FDA approved)
- Use of the fibrosis-4 index to assess the risk of liver fibrosis (fibrosis-4 index risk calculator).



# Immunizations



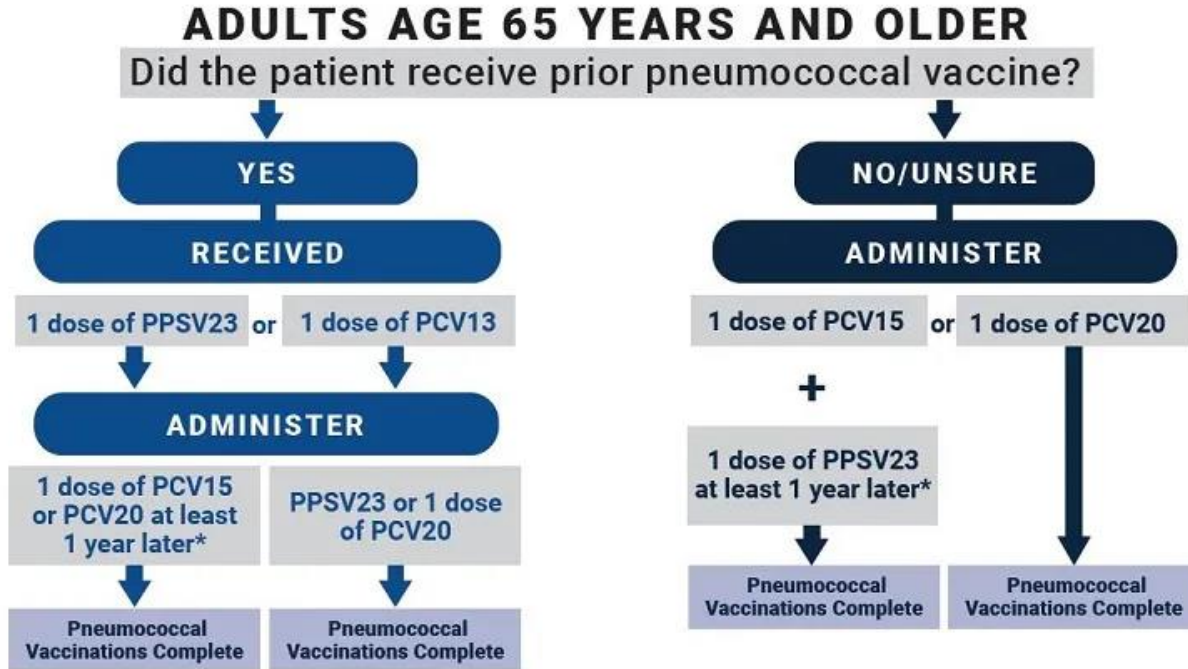
- Children and adults with diabetes should receive vaccinations according to age-appropriate recommendations.
- The importance of routine vaccinations for people living with diabetes has been elevated by the coronavirus disease 2019 (COVID-19) pandemic.
- Preventing avoidable infections not only directly prevents morbidity but also reduces hospitalizations, which may additionally reduce risk of acquiring infections such as COVID-19.

# Immunizations

Vaccine	Age Group Recommendations
<b>Hepatitis B</b>	<ul style="list-style-type: none"><li>• &lt; 60 years of age</li><li>• ≥ 60 years of age discuss with healthcare provider</li></ul>
<b>Human papilloma virus (HPV)</b>	<ul style="list-style-type: none"><li>• ≤ 26 years of age</li><li>• 27–45 years of age may also be vaccinated against HPV after a discussion with health care provider</li></ul>
<b>Influenza</b>	<ul style="list-style-type: none"><li>• All patients (Advised not to receive live attenuated influenza vaccine)</li></ul>
<b>Pneumonia (PPSV23)</b>	<ul style="list-style-type: none"><li>• 19–64 years of age, vaccinate with pneumovax</li><li>• ≥ 65 years of age, obtain second dose of Pneumovax, at least 5 years from prior Pneumovax vaccine</li></ul>
<b>Pneumonia (PCV20 or PCV15)</b>	<ul style="list-style-type: none"><li>• 19–64 years of age, with an immunocompromising condition (e.g., chronic renal failure), cochlear implant, or cerebrospinal fluid leak</li><li>• 19–64 years of age, immunocompetent</li><li>• ≥ 65 years of age, immunocompetent, have shared decision-making discussion with health care provider</li></ul>
<b>Tetanus, diphtheria, pertussis (Tdap)</b>	<ul style="list-style-type: none"><li>• All adults</li><li>• Pregnant women should have an extra dose</li></ul>
<b>Zoster</b>	<ul style="list-style-type: none"><li>• &gt; 50 years of age</li></ul>

# Immunizations

## PNEUMOCOCCAL VACCINE FOR US ADULTS



# A1c Testing

- Glycemic status (A1C or other glycemic measurement) should be assessed at least two times a year in patients who are meeting treatment goals.
- Assess glycemic status at least quarterly, and as needed, in patients whose therapy has recently changed and/or who are not meeting glycemic goals.

People who have diabetes are at higher risk of serious health complications:



**BLINDNESS**



**KIDNEY FAILURE**



**HEART DISEASE**



**STROKE**



**LOSS OF TOES, FEET, OR LEGS**

	HbA1c (percent)	Fasting Plasma Glucose (mg/dL)	Oral Glucose Tolerance Test (mg/dL)
Diabetes	≥ 6.5	≥ 126	≥ 200
Prediabetes	5.7 – 6.4	100 - 125	140 – 199
Normal	~ 5.7	≤ 99	≤ 139

## HYPOGLYCEMIA SYMPTOMS

### Hypoglycemia:

- Individuals at risk for hypoglycemia should be asked about symptomatic and asymptomatic hypoglycemia at each encounter.
- Hypoglycemia is a medical emergency.
- **Any HYPOglycemic event requires intervention!!!**



**Rule of 15:** Glucose (~15-20 g) is the preferred treatment for the conscious individual with blood glucose 70 mg/dL, although any form of carbohydrate that contains glucose may be used.

Fifteen minutes after treatment, if SMBG shows continued hypoglycemia, the treatment should be repeated. Once the SMBG or glucose pattern is trending up, the individual should consume a meal or snack to prevent recurrence of hypoglycemia.

# Hypoglycemia is a Medical Emergency

- Glucagon should be prescribed for all individuals at increased risk of level 2 or 3 hypoglycemia so that it is available should it be needed.
- Caregivers, school personnel, or family members of these individuals should know where it is and when and how to administer it.

Level 1 Hypoglycemia	Glucose < 70 mg/dL and $\geq$ 54 mg/dL
Level 2 Hypoglycemia	Glucose < 54 mg/dL
Level 3 Hypoglycemia	Severe event characterized by altered mental and/or physical status requiring assistance for treatment of hypoglycemia



# Glucagon Treatment for Diabetes-Related Hypoglycemia



Name / Delivery	Supplied	Dose Range		Age / Route / Storage
		Adults	Peds / Age Wt Dosing	
<b>Glucagon Emergency Kit</b> Injection requires mixing glucagon powder + diluent filled syringe	1mg / 1mL vial + syringe	1 mg	0.03mg/kg or < 6yr or < 25 kgs   0.5mg ≥ 6yr or > 25kgs   1mg	All ages approved SubQ or IM admin Expires in 2 years at room temp.
<b>Gvoke</b> Injectable liquid stable glucagon solution	0.5mg/1.0mg prefilled syringe or 0.5mg/1.0mg HypoPen auto-injector	1 mg	< 2yr: not recommended 2- 12 yrs < 45kg   0.5mg ≥ 45kg   1mg 12 years or older   1mg	Approved Age 2+ SubQ admin in arm, thigh, abdomen Expires in 2 years at room temp (keep in foil pouch).
<b>Baqsimi</b> Nasal glucagon powder	3 mg intranasal device	3 mg	< 4 yrs: not recommended 3 mg dose for 4 years or older	Approved Age 4+ Nasal admin Expires ~ 2 yrs at room temp (keep in shrink-wrapped tube)


*\*All raise BG 20+ points. Can cause nausea, vomiting. After admin, roll person on side. Seek medical help. If no response after 1st dose, give 2nd dose in 15 mins. When awake, give oral carbs ASAP when safe to swallow. Please consult package insert for detailed info.*

*All PocketCard content is for educational purposes only. Please consult prescribing information for detailed guidelines.*




# Intranasal Glucose

Approved for patients with diabetes  
4 years and older.



Administration process similar to  
intranasal naloxone. Given by  
caregiver, does not require



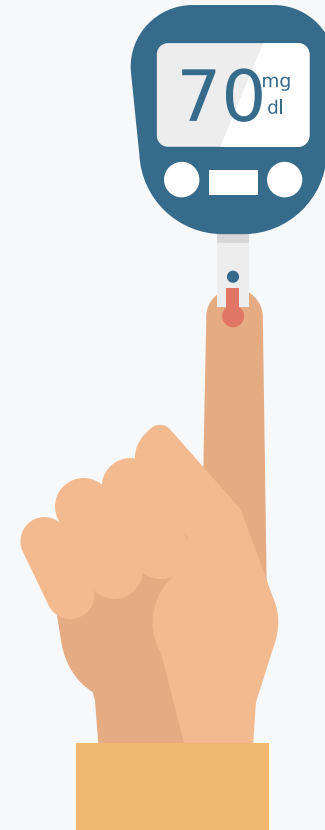
Does not require mixing.



Similar efficacy between products.

# Continuous Glucose Monitoring (CGM)

- Recent ADA guidelines have now changed to reflect that CGMs can be beneficial in all patients, even if not on basal insulin or multiple daily injections.
- Excessive Vitamin C as well as hypoxemia have been showed to cause inaccurate CGM readings.
- ADA guidelines show a goal time in range (TIR) (70–180 mg/dL) of  $\geq 70\%$  of the time, except in People with high risk of hypoglycemia or frailty should have a time in range (TIR) target of  $> 50\%$  &  $< 1\%$  time below range (TBR).



# FreeStyle Libre 3

SYSTEM	SYSTEM COMPONENTS	SENSOR	APPLICATOR	GLUCOSE READINGS
<p><b>FREESTYLE LIBRE 3</b></p>	 <p>Sensor + App*</p>	 <p>Size: 21 x 2.9mm</p>	 <p>One piece applicator</p>	 <p>Real-time glucose reading sent every minute to smartphone*</p>
<p><b>FREESTYLE LIBRE 2</b></p>	 <p>Sensor + Reader</p>	 <p>Size: 30 x 5 mm</p>	 <p>Two piece applicator</p>	 <p>Scan to see glucose readings</p>

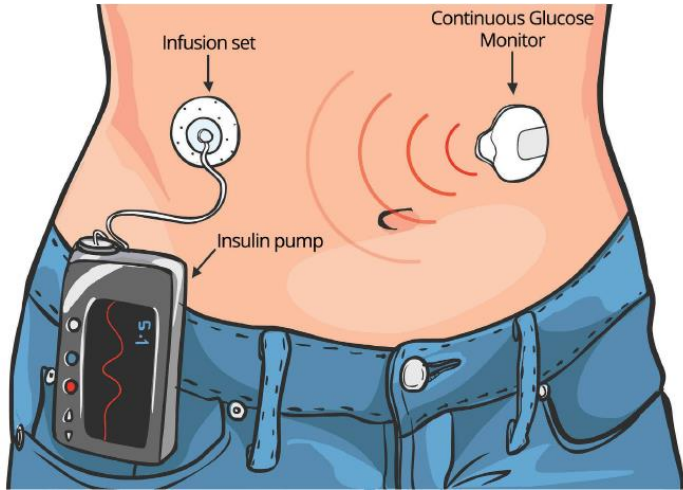
# Dexcom G7

- 10 day lifespan
- All-in-one sensor and transmitter
- 30 minute warmup vs 2 hour
- 12 hour grace period
- Worn on the back of the arm
- Currently not integrated with any insulin pumps



# Insulin Pumps

- Omnipod systems
- Medtronic pump



# OmniPod

- OmniPod 5 and OmniPod Dash
- Tubeless, waterproof, 72-hour insulin delivery, automatic cannula insertion and priming, 200 units
- OmniPod 5: compatible with a smartphone, integrated with Dexcom G6, does not require a PDM, automated insulin delivery, SmartBolus Calculator



# Medtronic

- MiniMed 770G T1DM and MiniMed 630G T1DM and T2DM
- Hold 300 units
- Compatible with the Guardian CGM
- Automated insulin delivery
- BolusWizard Calculator

**MiniMed™ 770G System**



**MiniMed™ 630G System**





## Type 1 DM:

- Insulin
- Symlin



## Type 2 DM Oral Agents:

- Metformin
- Sulfonylureas
- Meglitinides
- DPP-4 inhibitors
- SGLT-2 inhibitors
- Thiazolidinediones
- GLP-1



## Type 2 DM Injectables:

- Insulin
- GLP-1 agonists
- GLP-1/GIP agonists (New!)



# Mounjaro(Tirzepatide)

## START THE EXPERIENCE

2.5 MG  
ONCE WEEKLY



Starting dose (for 4 weeks)

**MONTH 1**

## CONTINUE THE EXPERIENCE

5 MG  
ONCE WEEKLY



For at least 4 weeks

**MONTH 2**

## IF ADDITIONAL GLYCEMIC CONTROL IS NEEDED

7.5 MG  
ONCE WEEKLY



10 MG  
ONCE WEEKLY



12.5 MG  
ONCE WEEKLY



15 MG  
ONCE WEEKLY

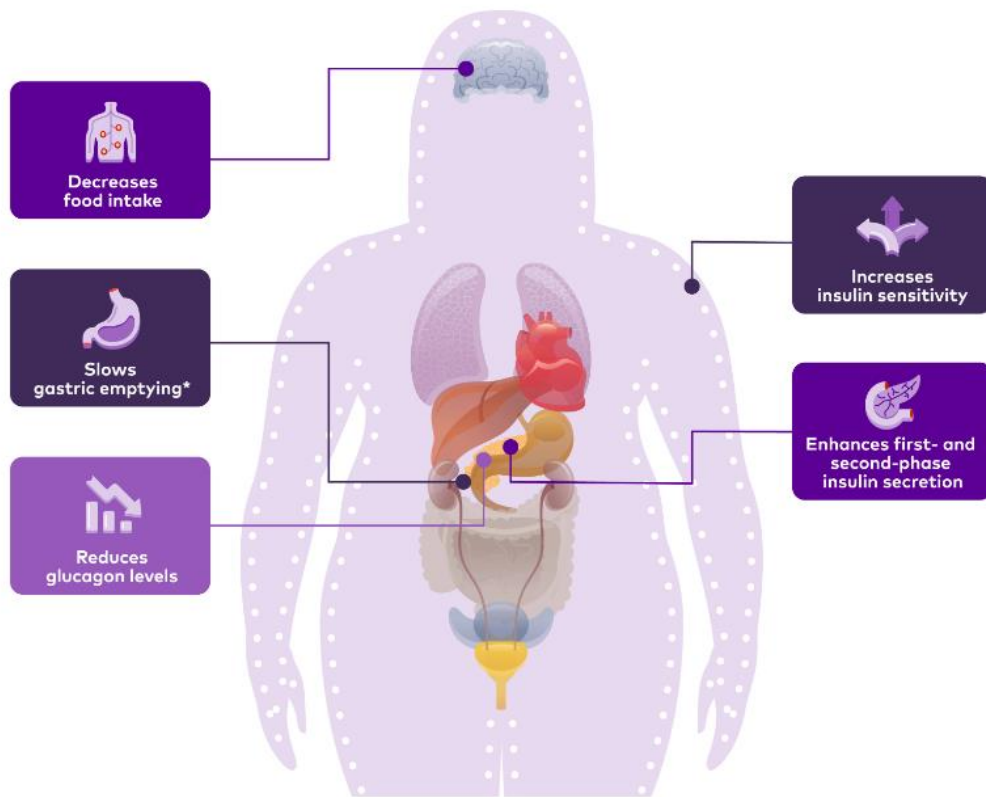


For at least 4 weeks

For at least 4 weeks

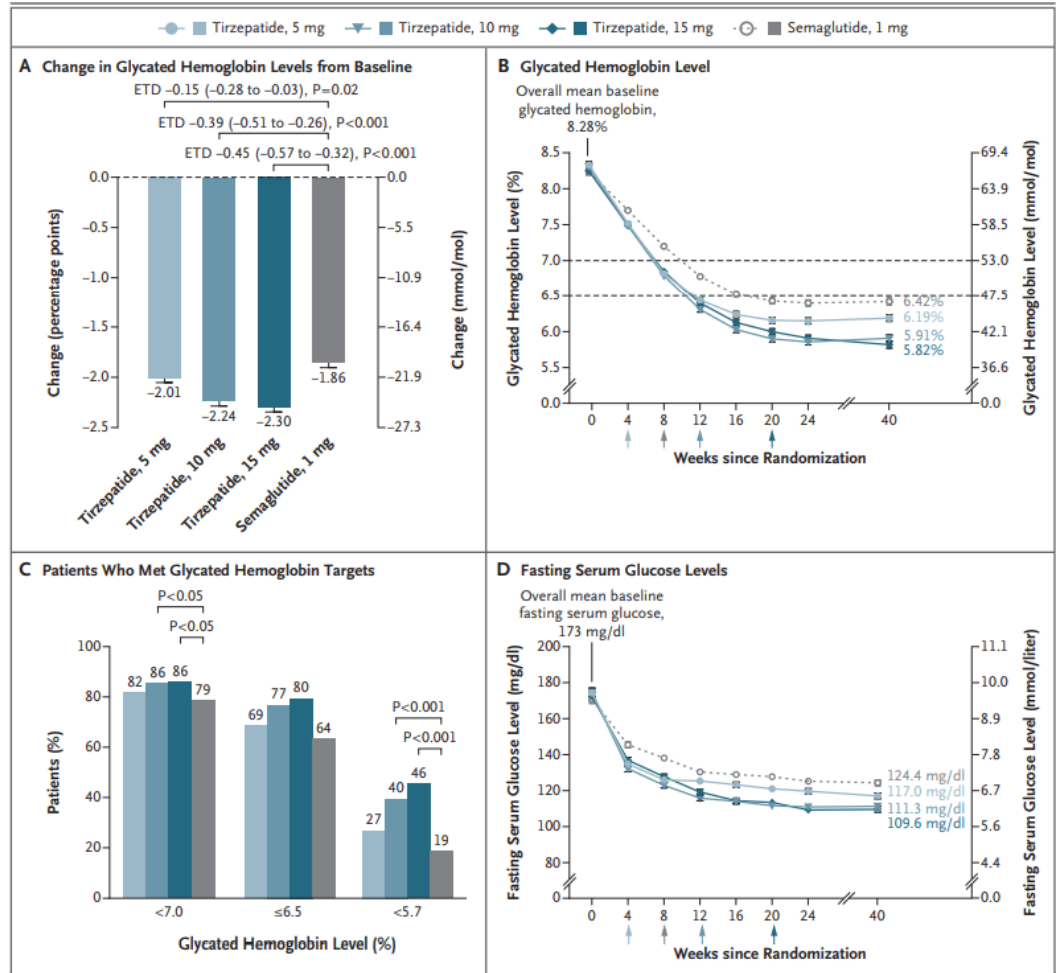
For at least 4 weeks

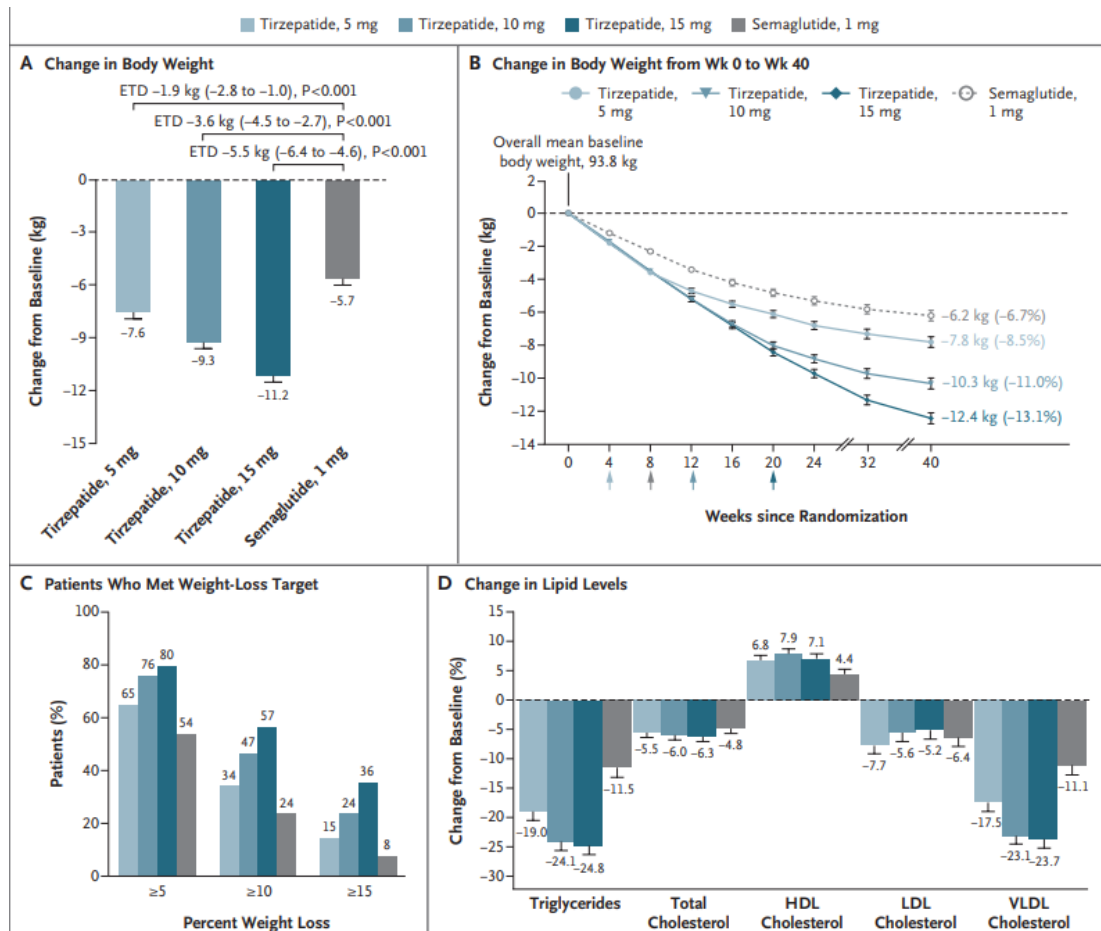
Maximum dose



# SURPASS-2 Trial

- Tirzepatide was compared to Semaglutide 1 mg in a 40 week RCT
- At baseline, the mean HbA1c was 8.28%,
- Mean age 56.6 years, and mean weight 93.7 kg.
- The primary end point was change in HbA1c from baseline to 40 weeks.



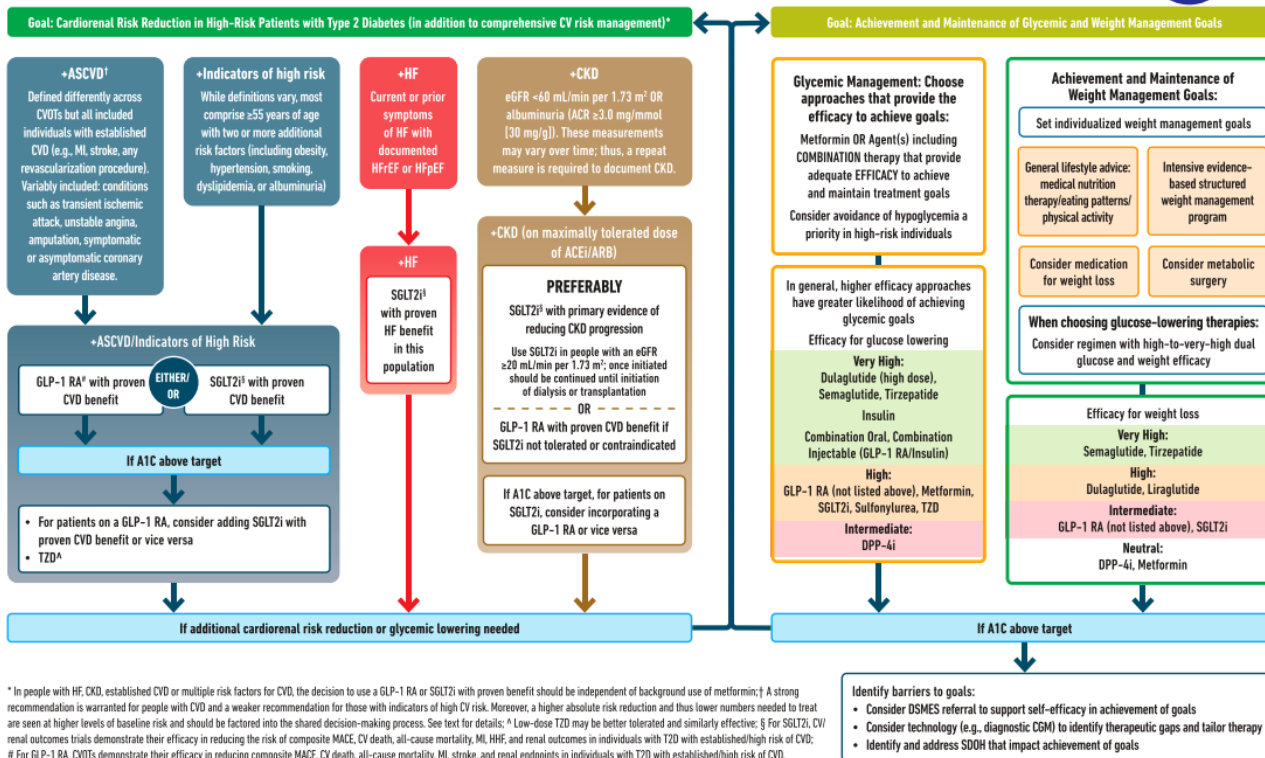


# NEW 2023 ADA Guidelines

## USE OF GLUCOSE-LOWERING MEDICATIONS IN THE MANAGEMENT OF TYPE 2 DIABETES

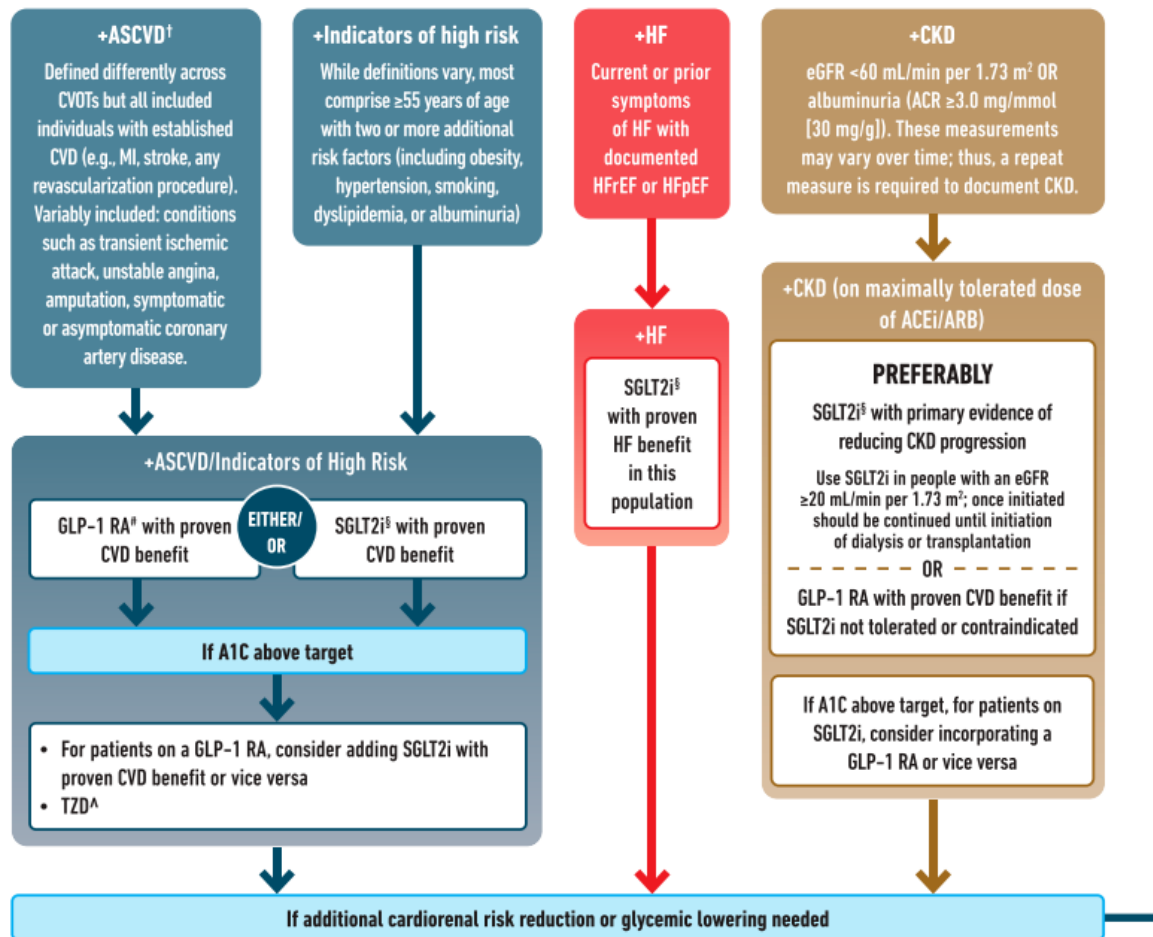


HEALTHY LIFESTYLE BEHAVIORS; DIABETES SELF-MANAGEMENT EDUCATION AND SUPPORT (DSMES); SOCIAL DETERMINANTS OF HEALTH (SDOH)



\* In people with HF, CKD, established CVD or multiple risk factors for CVD, the decision to use a GLP-1 RA or SGLT2i with proven benefit should be independent of background use of metformin;† A strong recommendation is warranted for people with CVD and a weaker recommendation for those with indicators of high CV risk. Moreover, a higher absolute risk reduction and thus lower numbers needed to treat are seen at higher levels of baseline risk and should be factored into the shared decision-making process. See text for details; <sup>4</sup> Low-dose TZD may be better tolerated and similarly effective; <sup>5</sup> For SGLT2i, CV renal outcomes trials demonstrate their efficacy in reducing the risk of composite MACE, CV death, all-cause mortality, MI, HFrEF, and renal outcomes in individuals with T2D with established/high risk of CVD; <sup>6</sup> For GLP-1 RA, CVDs demonstrate their efficacy in reducing composite MACE, CV death, all-cause mortality, MI, stroke, and renal endpoints in individuals with T2D with established/high risk of CVD.

**Goal: Cardiorenal Risk Reduction in High-Risk Patients with Type 2 Diabetes (in addition to comprehensive CV risk management)\***



Goal: Achievement and Maintenance of Glycemic and Weight Management Goals

**Glycemic Management: Choose approaches that provide the efficacy to achieve goals:**

Metformin OR Agent(s) including COMBINATION therapy that provide adequate EFFICACY to achieve and maintain treatment goals  
Consider avoidance of hypoglycemia a priority in high-risk individuals

In general, higher efficacy approaches have greater likelihood of achieving glycemic goals

Efficacy for glucose lowering

**Very High:**

Dulaglutide (high dose), Semaglutide, Tirzepatide

Insulin

Combination Oral, Combination Injectable (GLP-1 RA/Insulin)

**High:**

GLP-1 RA (not listed above), Metformin, SGLT2i, Sulfonyleurea, TZD

**Intermediate:**

DPP-4i

**Achievement and Maintenance of Weight Management Goals:**

Set individualized weight management goals

General lifestyle advice: medical nutrition therapy/eating patterns/physical activity

Intensive evidence-based structured weight management program

Consider medication for weight loss

Consider metabolic surgery

**When choosing glucose-lowering therapies:**

Consider regimen with high-to-very-high dual glucose and weight efficacy

Efficacy for weight loss

**Very High:**

Semaglutide, Tirzepatide

**High:**

Dulaglutide, Liraglutide

**Intermediate:**

GLP-1 RA (not listed above), SGLT2i

**Neutral:**

DPP-4i, Metformin

If A1C above target

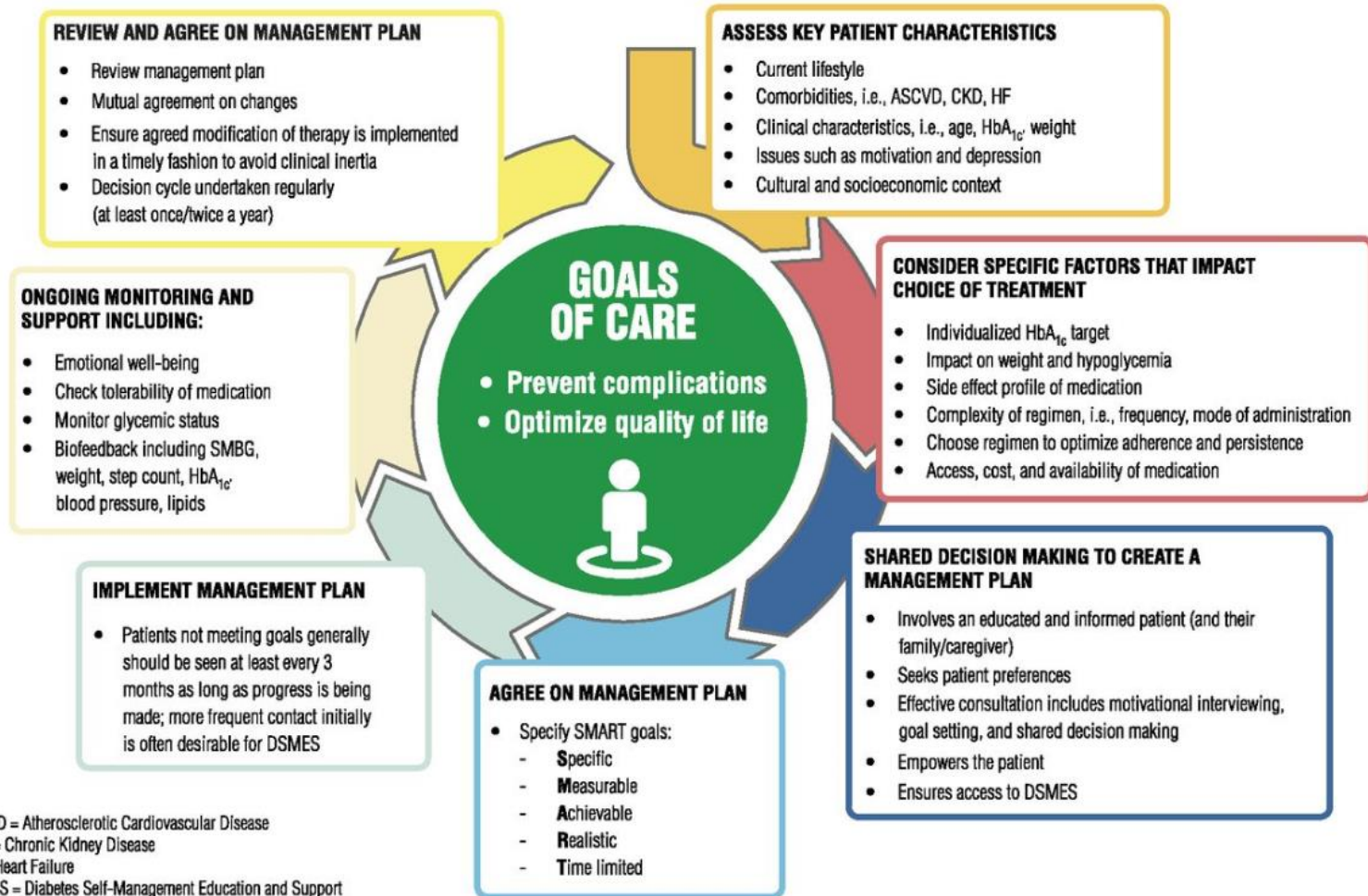


**Identify barriers to goals:**

- **Consider DSMES referral to support self-efficacy in achievement of goals**
- **Consider technology (e.g., diagnostic CGM) to identify therapeutic gaps and tailor therapy**
- **Identify and address SDOH that impact achievement of goals**



# DECISION CYCLE FOR PATIENT-CENTERED GLYCEMIC MANAGEMENT IN TYPE 2 DIABETES



ASCVD = Atherosclerotic Cardiovascular Disease  
CKD = Chronic Kidney Disease  
HF = Heart Failure  
DSMES = Diabetes Self-Management Education and Support  
SMBG = Self-Monitored Blood Glucose

## Chronic Kidney Disease

- Optimize glucose control to reduce the risk or slow the progression of CKD.
- First line- ACE/ ARB
- SGLT2 inhibitors reduce intra-glomerular pressure
- Slows progression of kidney damage with albuminuria
- Stabilizes long-term GFR
- Decreased incidence of dialysis
- GFR decreases slightly over initial 1-3 months
- Renal and cardioprotective effects are retained until ~GFR of 20/ml/min
- For patients with type 2 diabetes, consider use of an SGLT2 inhibitor in patients with an eGFR >30 mL/min/1.73 m<sup>2</sup> and urinary albumin >300 mg/g creatinine.



# Finerenone

- Finerenone = selective nonsteroidal mineralocorticoid receptor antagonist that provides cardiorenal benefits predominantly in patients with stage 3 or 4 CKD with severely elevated albuminuria and type 2 diabetes
- Among patients with T2DM and CKD: finerenone group had a lower risk of the primary composite outcome of CV death, nonfatal MI, nonfatal stroke, or hospitalization for heart failure
- Consistent cardiovascular benefits of finerenone therapy were observed independent of and in combination with SGLT2 inhibitors/GLP-1
- Recommended the addition of finerenone in T2DM & CKD with albuminuria treated with max tolerated ACE/ARB.



# Lipid Management

High intensity statin therapy recommended in people with diabetes 40-75 years old with higher risk (atherosclerotic cardiovascular disease (ASCVD) risk factors) to reduce LDL cholesterol by  $\geq 50\%$  of baseline & **target LDL goal of  $< 70$  mg/dl.**

Recommendation of use of high intensity statin therapy in people with diabetes with established ASCVD to reduce LDL cholesterol by  $\geq 50\%$  of baseline & **target LDL goal of  $< 55$  mg/dl.**

Statin	High-Intensity	Moderate-Intensity	Low-Intensity
	Lowers LDL $>50\%$	Lowers LDL 30% to 49%	Lowers LDL $<30\%$
Atorvastatin	40 mg – 80 mg	10 mg – 20 mg	
Rosuvastatin	20 mg – 40 mg	5 mg – 10 mg	
Lovastatin		40 mg	20 mg
Simvastatin		20 mg – 40 mg	10 mg
Pravastatin		40 mg – 80 mg	10 mg – 20 mg
Fluvastatin (XL)		80 mg	
Fluvastatin		40 mg (twice daily)	20 mg – 40 mg
Pitavastatin		2 mg – 4 mg	1 mg

LDL=low-density lipoprotein.  
Source: *Circulation*. 2013;129(25 suppl 2):S1-S45.

**Table 1. Pharmacologic Characteristics of Statins**

<b>Drug</b>	<b>Dose (mg)</b>	<b>CYP450 Pathway</b>	<b>Bioavailability (%)</b>	<b>Absorption (%)</b>	<b>Lipophilicity</b>	<b>Half-life (h)</b>
Atorvastatin	10-80	CYP2C9 (<10%)	12	30	Yes	15-30
Fluvastatin	20-80	CYP2C9, CYP3A4 (minor)	19-29	98	Yes	0.5-2.3
Lovastatin	10-80	CYP3A4	<5	30	Yes	2.9
Pitavastatin	1-4	Glucuronidation, CYP2C9 (minor), CYP3A4 (minor)	51	50	Yes	8-12
Pravastatin	40-80	None	18	24	No	1.3-2.8
Rosuvastatin	5-40	CYP2C (<10%), CYP2C19 (minor)	20	Rapid	No	15-30
Simvastatin	5-80	CYP3A4, CYP3A5	<5	60-80	Yes	2-3

*Source: References 6, 9, 20-26.*

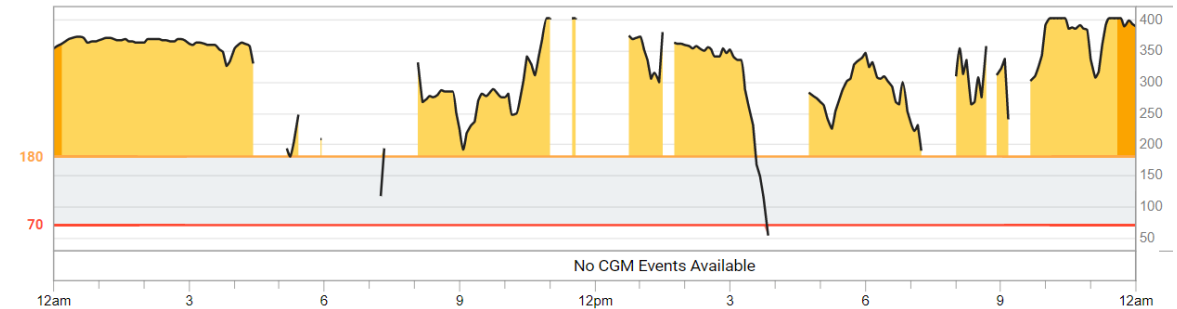
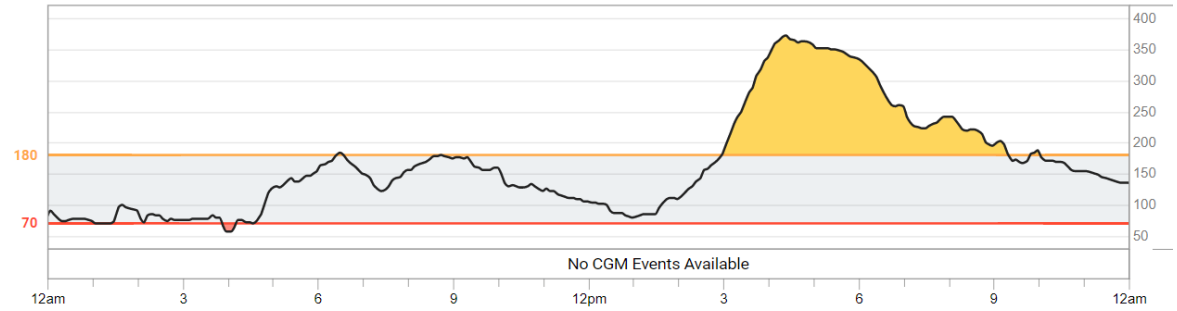
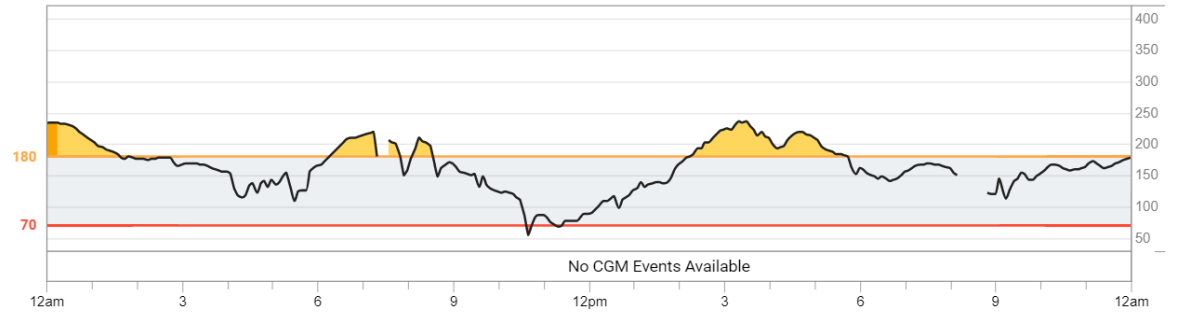
# Patient Case

- Chief Complaint: diabetes
- History of Present Illness:
  - TJ is a 81 yo male who presents for follow up on his T2DM.
  - His current diabetes medications included Tresiba Flextouch 94 units per day Novolog Flexpen 12 units at breakfast and 14 units at dinner +/- 2 units depending on carb content of meal as well as maximum dose of Victoza.
  - He also has a Dexcom CGM. When he presented for this visit he report having consistent lows in the morning and upon reviewing his Dexcom data his BG was all over the place with frequent highs and lows.
  - Adherence: states that he is taking as directed.
  - AEs: denies any side effects
  - Vaccines: Flu shot- Given

# CGM Data

Dexcom: CGM data reviewed  
from 11/18/22- 12/1/22

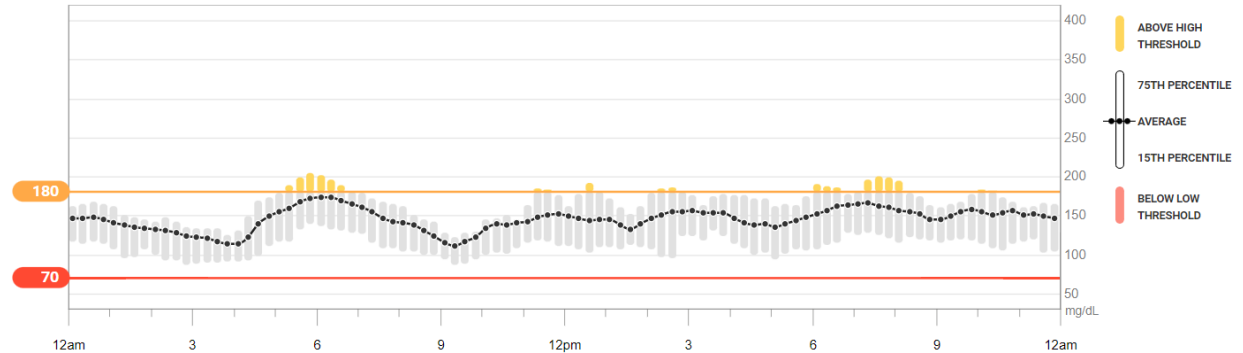
- Average: 174
- SD: 67
- Very high: 11%
- High: 25%
- In range: 62%
- Low: 1%
- Very low: <1%



The patient was started on Mounjaro 2.5mg once weekly and over the next couple of months his insulin was decrease to 36 units per day and his Dexcom data was as follows:

Dexcom: CGM data reviewed from 02/02/23- 02/15/23

- Average: 145
- SD: 36
- Very high: <1%
- High: 16%
- In range: 82%
- Low: 1%
- Very low: <1%





# Summary



- Focus on social determinants of health in guiding the design and delivery of care
- Emphasis on supporting weight loss and access to newer medications when appropriate
- The expanded role of SGLT2 inhibitor use in preserved and reduced heart failure ejection fraction
- Discuss new CGMs and insulin pumps
- New lipid management recommendations suggesting lower LDL goals for high-risk individuals

## Assessment Questions

TD is a 65 year old male who presents to the clinic to meet with the clinical pharmacist regarding his diabetic treatment. He states he has not received any vaccinations since he was a child. Which vaccinations would be appropriate to recommend to TD? Select all that apply

- A. Influenza
- B. Pneumovax 20
- C. Shingrix
- D. Tdap

## Assessment Questions

TD is a 65 year old male who presents to the clinic to meet with the clinical pharmacist regarding his diabetic treatment. He states he has not received any vaccinations since he was a child. Which vaccinations would be appropriate to recommend to TD? Select all that apply

- A. Influenza**
- B. Pneumovax 20**
- C. Shingrix**
- D. Tdap**



## Assessment Questions

How often does the FreeStyle Libre 3 need to be changed?

- A. 7 days
- B. 14 days
- C. 10 days
- D. 28 days

## Assessment Questions

How often does the FreeStyle Libre 3 need to be changed?

- A. 7 days- Guardian
- B. 14 days**
- C. 10 days-Dexcom CGMs
- D. 28 days

## Assessment Questions

What drug class is Tirzepatide?

- A. SGLT2 inhibitors
- B. GLP-1 agoists
- C. GLP-1/GIP
- D. Thiazolidinediones

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What drug class is Tirzepatide?

- A. SGLT2 inhibitors
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## Assessment Questions

Which drug class is associated with euglycemic DKA?

- A. SGLT2 inhibitors
- B. Biguanides
- C. Meglitinides
- D. Thiazolidinediones
- E. GLP-1 agonists



## Assessment Questions

Which drug class is associated with euglycemic DKA?

- A. **SGLT2 inhibitors**
- B. Biguanides
- C. Meglitinides
- D. Thiazolidinediones
- E. GLP-1 agonists



# Thanks!

Do you have any questions?

Contact: [courtney.mcvey@pchc.com](mailto:courtney.mcvey@pchc.com)

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