

Diabetes Update 2025: New guidelines, approaches and drugs

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- Clinical focus: Diabetes care in complex patient populations
- Research focus: Health outcomes research and care model design for people with diabetes





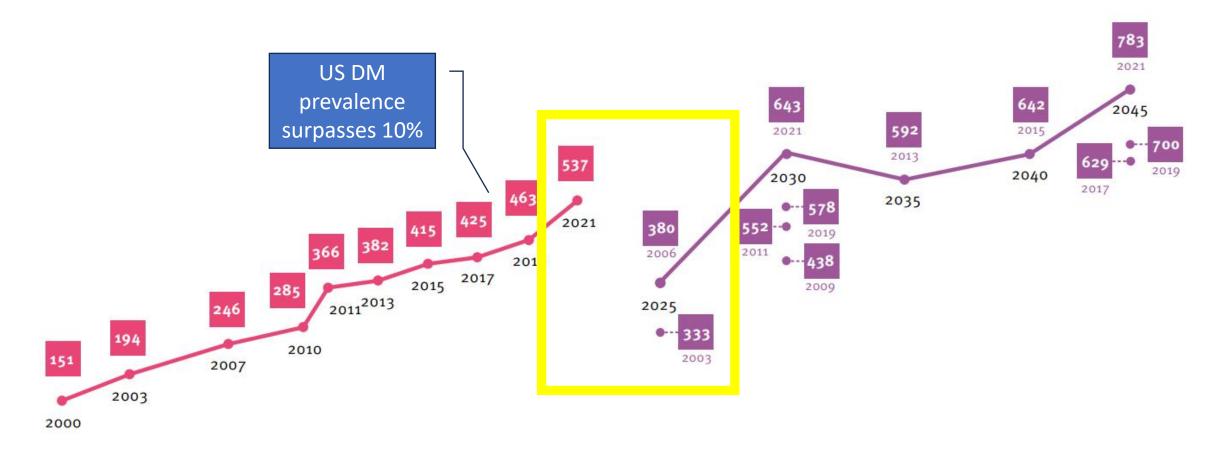
Disclosures

Research funding paid directly to institution: Dexcom, Inc

Learning Objectives

- Review basics of diagnosis and when to think beyond type 2
- Understand how to prescribe the available noninsulin pharmacologic therapies for type 2 diabetes
- Learn how to individualize therapeutic strategies for type 2 diabetes based on comorbidities, goals as well as concerns and side effects

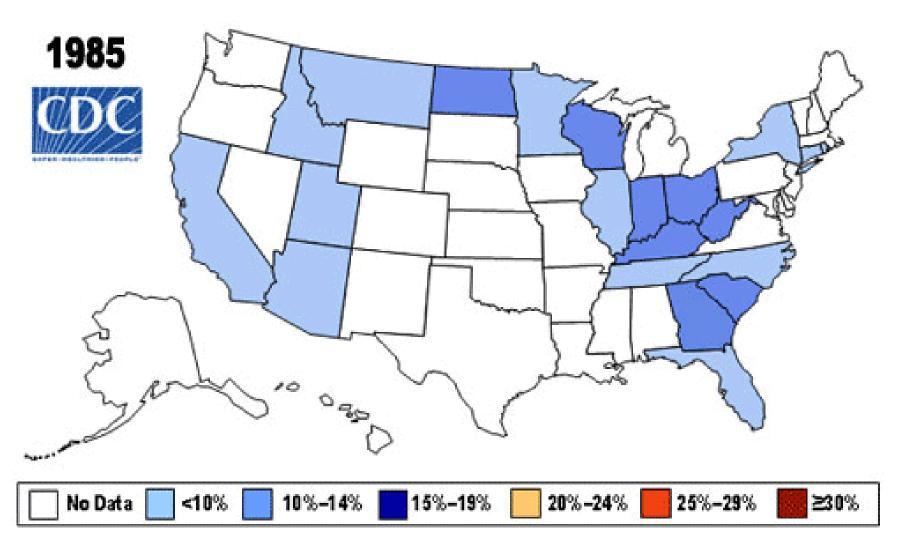
Diabetes Is Globally OUTPACING Projections



Number of people with diabetes in millions

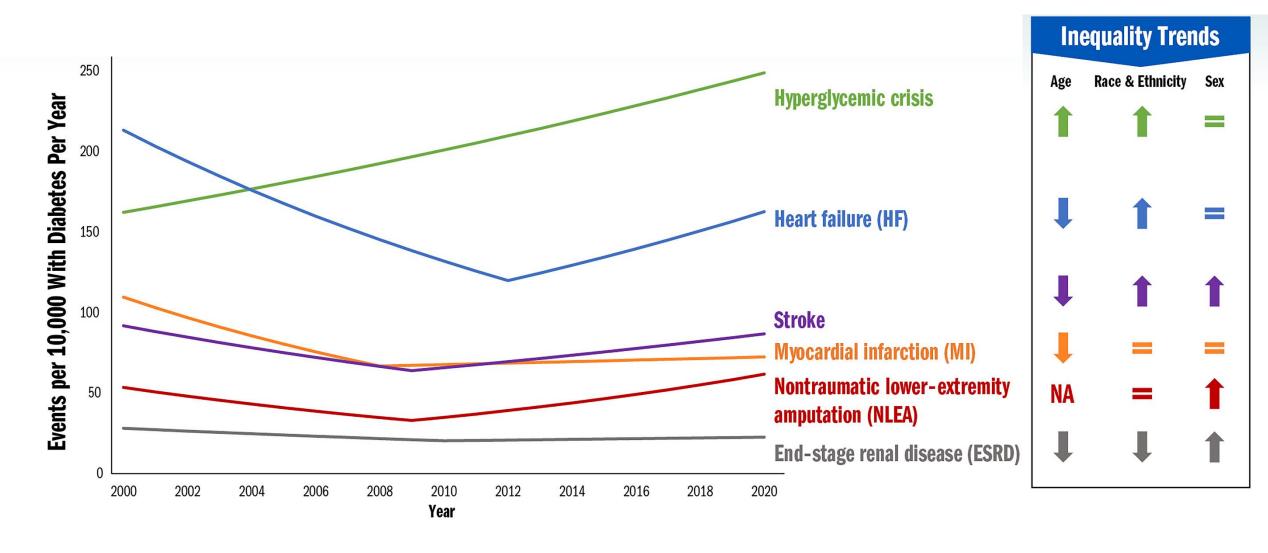
Key
Projection in millions
Year projection made

Obesity: Key Driver of the Diabetes Pandemic



Percentages of the U.S. population medically defined as obese (BMI > 30 kg/m2, 1985-2010)

Trends and Inequalities in Diabetes-Related Complications Among U.S. Adults, 2000–2020

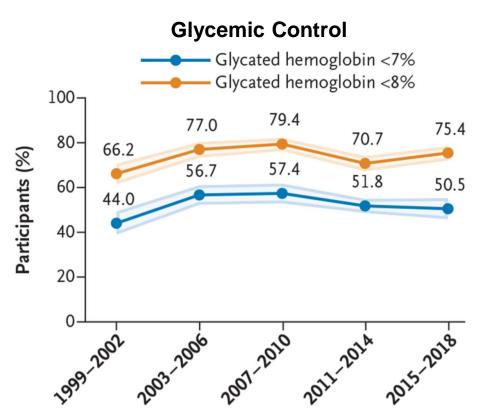


Diabetes Care. 2024;48(1):18-28. doi:10.2337/dci24-0022

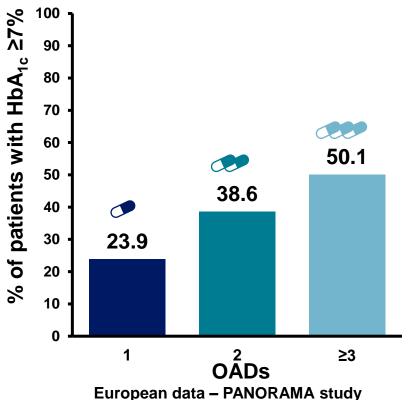
Date of Download: 5/8/2025

Sole Focus on Glycemic Control Has Been Ineffective

"After more than a decade of progress from 1999 to the early 2010s, glycemic and blood-pressure control declined in adult NHANES participants with diabetes."



Fang M, et al. N Engl J Med. 2021 Jun 10;384(23):2219-2228.

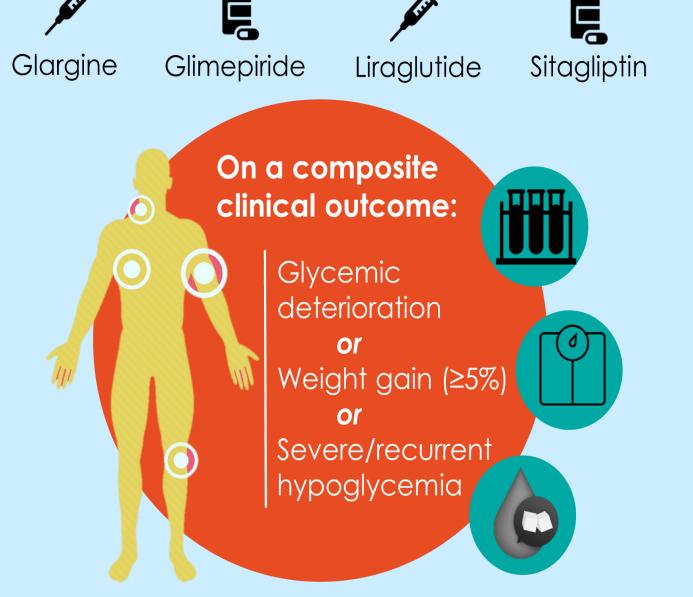


de Pablos-Velasco et al. Clin Endocrinol (Oxf). 2014 Jan;80(1):47-56.



70% of subjects had an A1c >7% by study end

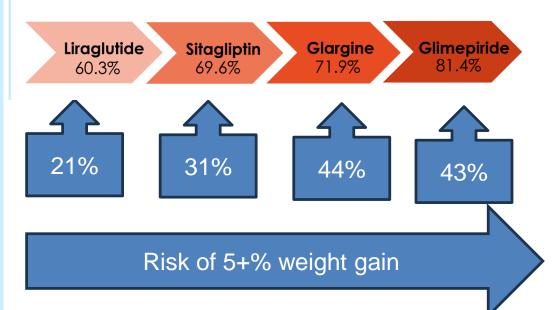
To compare effects of 1 of 4 randomized study drugs added to metformin monotherapy:



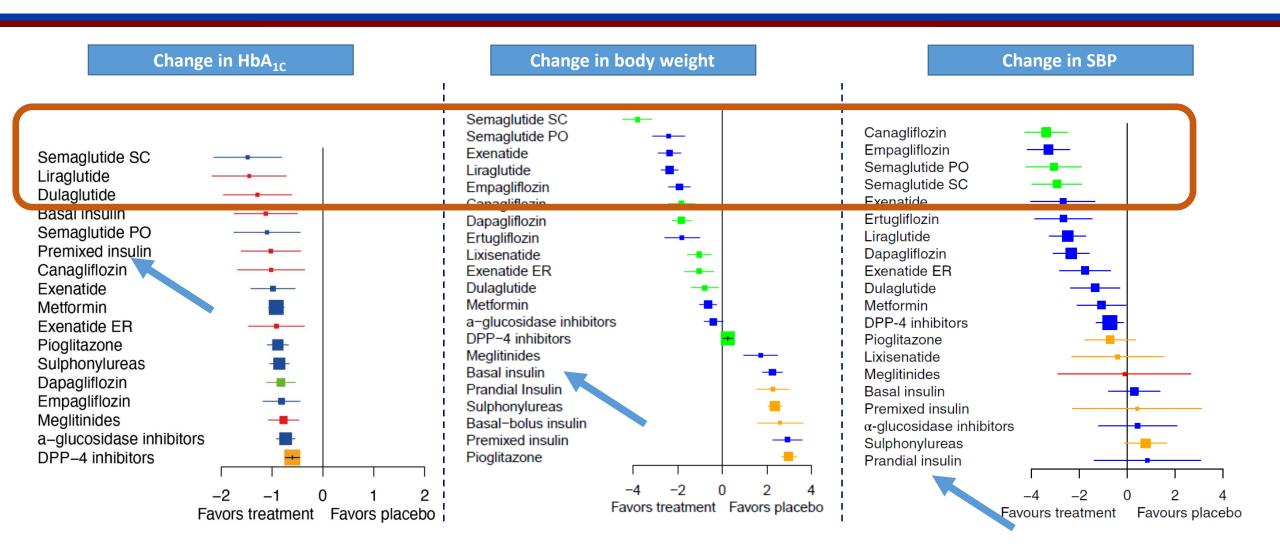
GRADE Study

N=5,047 with $T2D \le 10y$ Followed for 7 Years

 The risk of reaching the composite outcome was, from lowest to highest:



Increased Metabolic Effectiveness of Diabetes Meds



2025 Guidance: Giving Equal Weight

Cartion the section of the case-lowering medication of the case of the case-lowering medication of the case of the Medication for Glycdenic Management "I want to help to protect your **COMPONENTS OF CARE** organs from Cardiovascular Risk Factor Management diabetes related problems."

"I want to help you to control your blood sugar and your weight."

1 = American Diabetes Association Professional Practice Committee. 10. Cardiovascular Disease and Risk Management: Standards of Medical Care in Diabetes-2022. Diabetes Care. 2022 Jan 1;45(Suppl 1):S144-74.

ACEI, Angiotensin-Converting Enzyme Inhibitor; ARB, Angiotensin Receptor Blockers; ASCVD, Atherosclerotic Cardiovascular Disease; BP, Blood Pressure; CKD, Chronic Kidney Disease; CV, Cardiovascular; e6FR, Estimated Glomerular Filtration Rate; GLP-1 RA, Glucagon-Like Peptide-1 Receptor Agonist; HF, Heart Failure; SGLT2i, Sodium-Glucose Cotransporter-2 Inhibitor; T2D, Type 2 Diabetes.

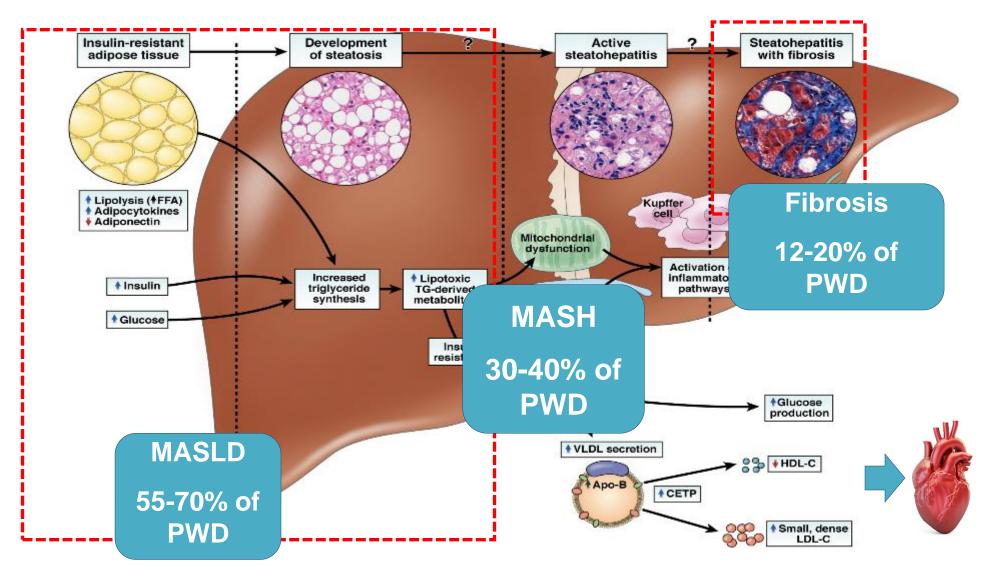
CKM disease in stages...Stage 1 = Too much/abnormal adipose Should be

AHA PRESIDENTIAL ADVISORIES

Cardiovascular-Kidney-Metabolic Health: A Presidential **CK***L***M**?.... Nonmetabolic etiologies of **Advisory From the American Heart Association** hypertension Stage 0: Stage 1: Stage 2: Stage 3: Stage 4: No Risk Factors **Excess/Dysfunctional Metabolic Risk** Subclinical CVD in **Clinical CVD in CKM Syndrome Adipose Tissue Factors and CKD CKM Syndrome** Hypertension Metabolic Hypertriglyceridemia syndrome Subclinical **ASCVD** Stroke Subclinical Afib Overweight/obesity Abdominal obesity Type 2 Moderate- to Impaired glucose diabetes high-risk CKD tolerance A focus on primordial prevention and preserving Nonmetabolic Risk equivalents of subclinical CVD in CKM Stage 3: cardiovascular health etiologies of CKD Very high-risk CKD (G stage 4 and 5 CKD or by KDIGO heat map) High predicted risk for CVD using risk calculator

The Natural History of MASLD:

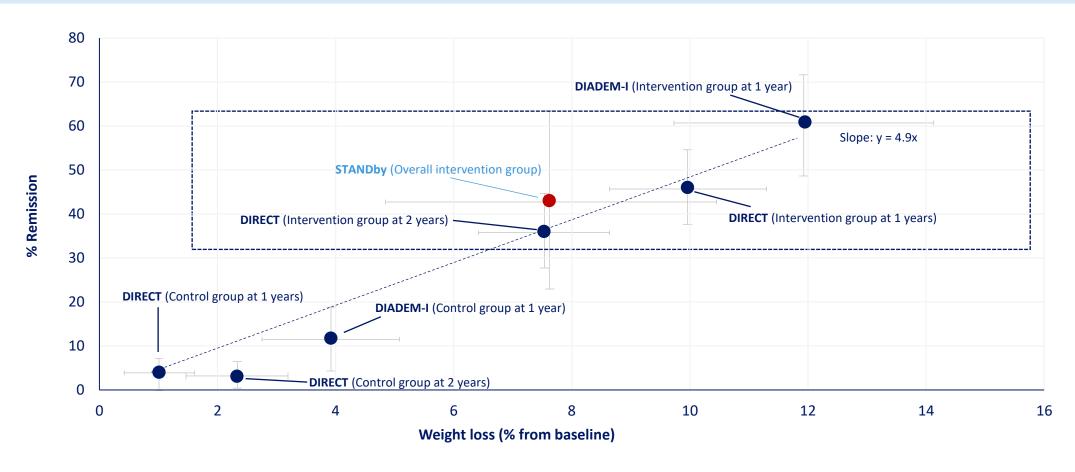
Rx: prevent/treat steatosis to prevent cirrhosis



"Do I need to take medications? ... Tell me how much weight I need to lose and I'll do it!"

Diabetes Remission in "Real World" Studies is Driven by >10% weight loss within one year

Relationship between relative weight loss and achieving remission in STANDby, DIRECT 1-and-2-year follow-up studies and DIADEM-I



ReTUNE study: Is weight loss also effective in normal to overweight BMI? Do we have a "personal fat threshold?"

Weight loss in adults with T2DM with norobese BMI induced T2D remission: "Aetiology of Type 2 diabetes does not depend on BMI."

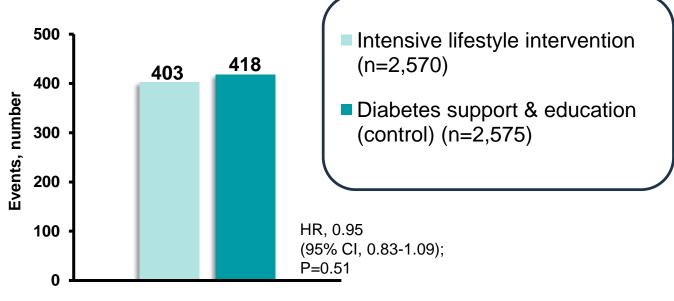
Intervention: 1–3 cycles of 2–4 weeks at 800 kcal/day to reach HbA < 6.5%

Baseline	Key results	Conclusion
N=20 (T2DM, BMI < 27 kg/m ²) 59.3 ± 7.1 years BMI 24.8 ± 1.7 kg/m ²	70% (14/20) achieved sustained remission at 12 months, defined as HbA _{1c} <6.5%, off all hypoglycemic medications Reduction in intrahepatic and intrapancreatic fat percentage, fasting plasma insulin level	 Weight loss can bring about T2D remission in people with a 'normal' BMI Threshold of remission achieved with median weight loss of 6.5% (range 5.5–10.2)% Mechanistic changes behind remission are similar in obese and non-obese individuals

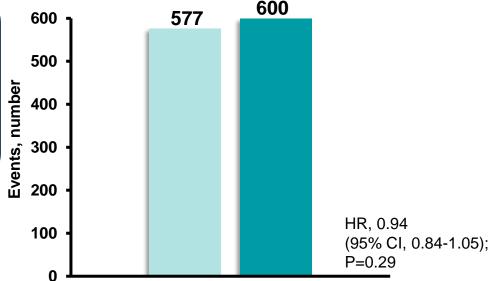
BMI, body mass index; HbA_{1c}, glycated haemoglobin; T2D, type 2 diabetes.
 Taylor R et al. Clin Sci (Lond). 2023;137(16):1333 -1346.

But does weight loss help the heart? taking a second look at Look AHEAD:

Primary outcome: composite of first occurrence of death from CV causes, nonfatal MI, nonfatal stroke, or hospitalization for angina



Secondary outcome: death from any cause, nonfatal I, nonfatal stroke, hosp for angina, CABG, PCI, hosp fpr heart failure, carotid endarterectomy, or PVD



Look AHEAD=Action for Health in Diabetes

Cl=confidence interval; CV=cardiovascular; HR=hazard ratio; Ml=myocardial infarction; CABG= coronary artery bypass grafting; PCl=percutaneous coronary intervention; PVD=peripheral vascular disease

Weight-loss responders DO have improved CV outcomes

A post hoc analysis of the Look AHEAD randomised clinical trial

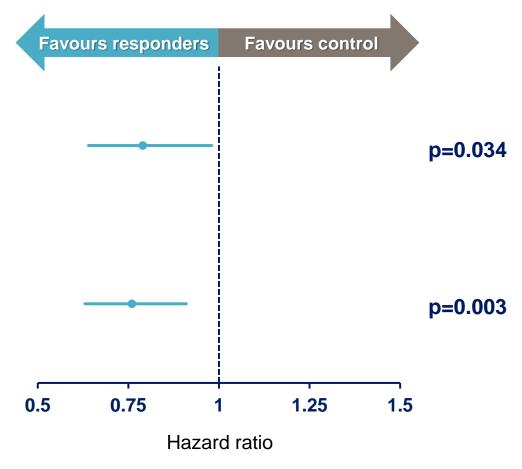
Responders: lost <u>at least 10%</u> of their body weight in the 1st year of the study

Primary outcome – 21% lower

 – CV death, non-fatal acute MI, non-fatal stroke, or admission to hospital for angina

Secondary outcome – 24% lower

As above plus CABG, carotid endarterectomy,
 PCI, hospitalisation for CHF, peripheral
 vascular disease, or total mortality



N=4406 participants with T2D to an intensive lifestyle intervention or diabetes support and education.

AHEAD, The Action for Health Diabetes; CABG, coronary artery bypass grafting; CHF, congestive heart failure; CV, cardiovascular; MI, myocardial infarction; PCI, percutaneous coronary intervention; T2D, type 2 diabetes.

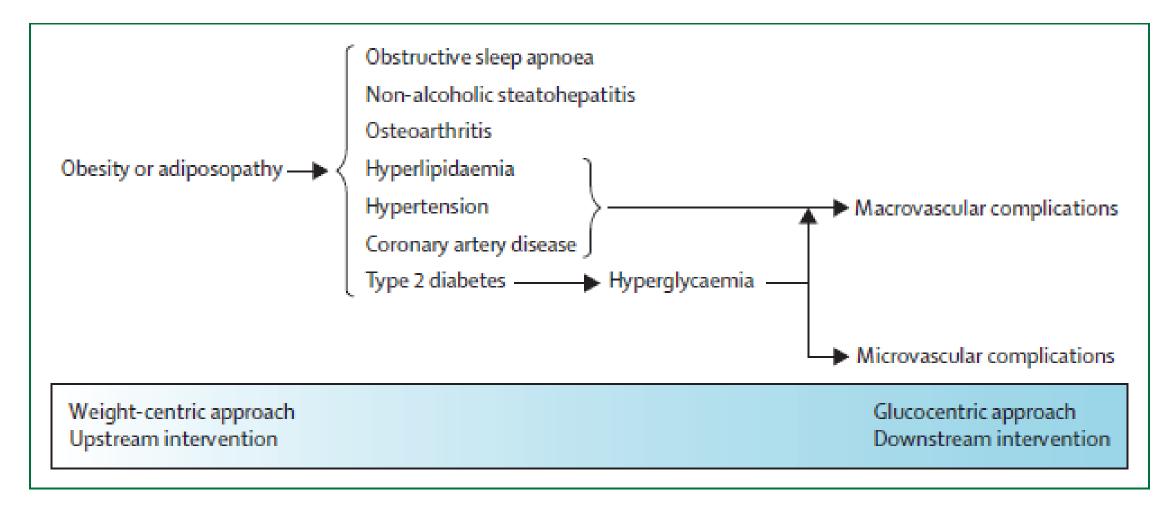
Look AHEAD Research Group. *Lancet Diabetes Endocrinol* 2016;4:913–21.a

ARMMS T2D STUDY: Bariatric Surgery vs. Medical Management

	Bariatric Surgery *ARMMS T2D STUDY	Medical/lifestyle Management ARMMS T2D STUDY
A1c reduction	1.6%	0.2%
Diabetes Remission (off medications)	38% at 3 years 13% at 12 yrs	3% at 3 years 0% 12 years
% Weight loss	23% at 3 yrs	5% at 3 yrs
Deaths	2	2

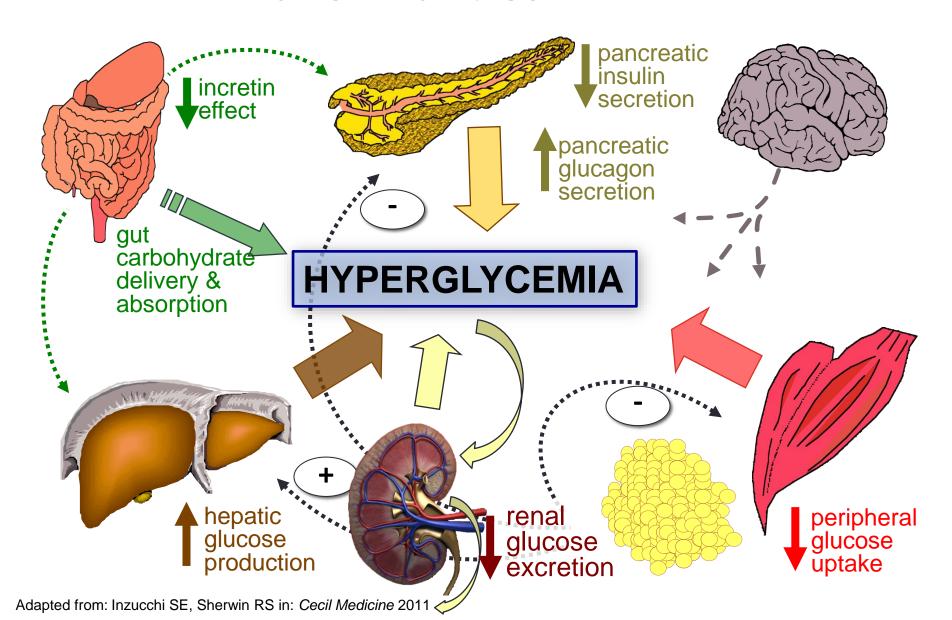
^{*}N =262 over 7-12 years

New Concept in a Nutshell: Adopting an "Upstream" Weight-centric Approach instead of a Glucocentric Management Approach

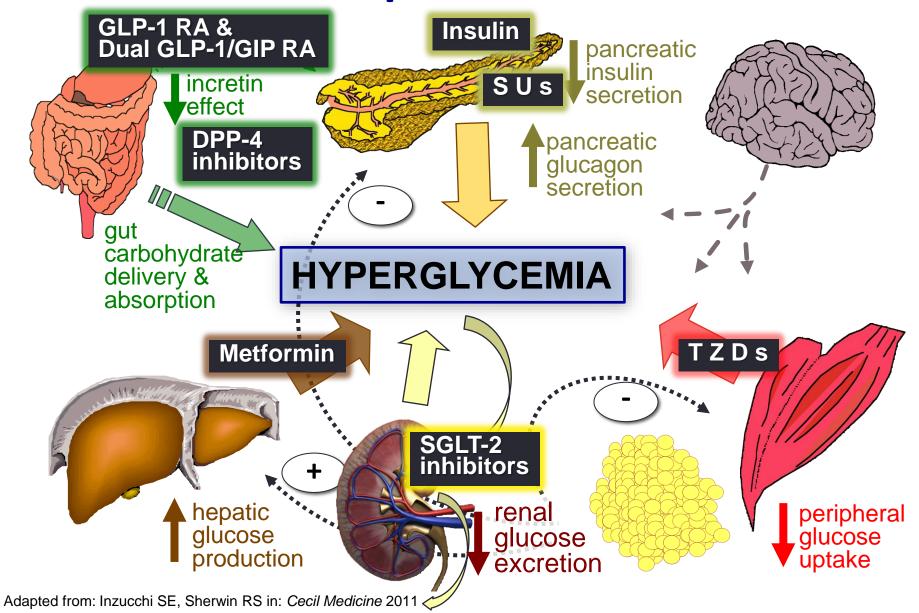


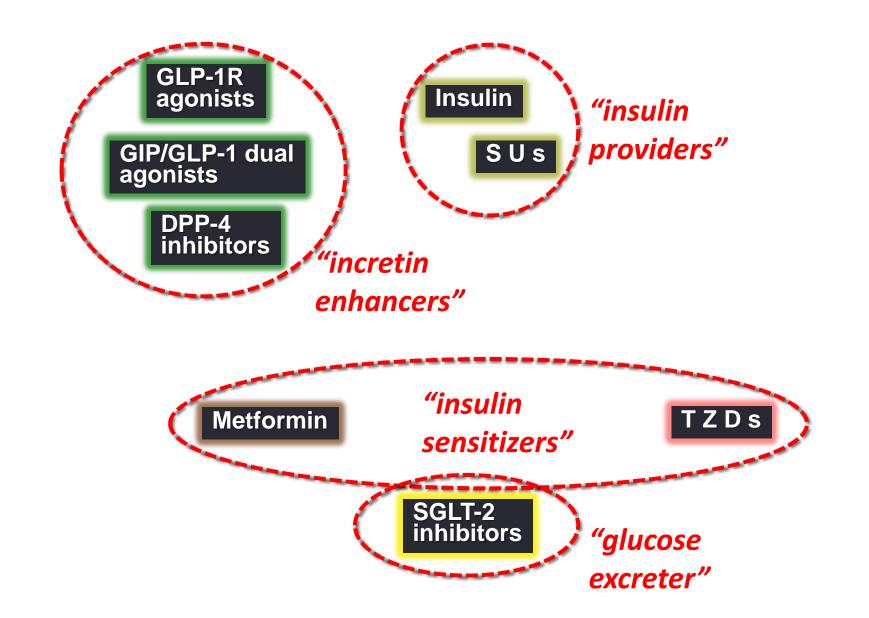
What are the options for medication management in Type 2 Diabetes: *An Overview*

Multiple Complex Pathophysiological Abnormalities in T2DM



Major Pathophysiologically-Based Therapies for T2DM





GLP-1R and dual GLP1/GIP agonists

Insulin

SUs

DPP-4 inhibitors

Metformin

TZDs

SGLT-2 inhibitors

Glucose Lowering Drugs Classes

Classes	Generic Names	₩ A1c	Side effects
Insulin	Degludec, Glargine, Detemir, NPH, Regular, Lispro, Aspart, Glulisine	1+ %	Hypoglycemia, weight gain, Injections
SU's	Glyburide, Glipizide, Glimepiride	1-1.5%	Hypoglycemia, weight gain
Metformin	Metformin	1-1.5%	GI, B-12 deficiency, lactic acidosis,
TZD's	Rosiglitazone, Pioglitazone	1-1.5%	CHF, Weight gain, edema, bone fx's, ?bladder ca
DPP-4 i's	Sitagliptin, Saxagliptin, Alogliptin, Linagliptin (GLIPTINS)	0.5-1%	Urticaria, arthralgias (rare) pancreatitis
Incretin RAs	GLP-1: Exenatide, Lira-, Dula-,Sema- GLP-1/GIP dRA: Tirzepatide	1-1.5%	GI, gallbladder, ?pancreatitis, injections
SGLT2-i's	Canagliflozin, Dapagliflozin, Empagliflozin, Bexaflozin (<u>FLOZINS</u>)	0.5-1%	GU infections, Polyuria, GU infections, DKA, ?fractures

Commonly Rx'd Glucose Lowering Drugs Classes

Classes	Generic Names	₩ A1c	Side effects
Insulin	Degludec, Glargine, Detemir, NPH, Regular, Lispro, Aspart, Glulisine	1+ %	Hypoglycemia, weight gain, Injections
SU	Glyburide, Glipizide, Glimepiride	1-1.5%	Hypoglycemia, weight gain
α-GLUCO-i	Acarbose, Voglibose,	0.5-1%	<u>GI,</u> liver
Metformin	Metformin Goal: Mitigate and minimize SEs through	1-1.5%	GI, B-12 deficiency, lactic acidosis (rare)
TZD	Rosiglitazon e, Piog through combination therapy	1-1.5%	CHF, Weight gain, edema, bone fx's, ?bladder ca
DPP-41	Sitagliptin, Saxas Linagliptin (GLIPTINS)	0.5-1%	Urticaria, arthralgias (rare) pancreatitis
Incretin RA	ncretin RA GLP-1: Exenatide, Lira-, Dula-,Sema- GLP-1/GIP dRA: Tirzepatide		GI, gallbladder, ?pancreatitis
SGLT2-i	Canagliflozin, Dapagliflozin, Empagliflozin, Bexaflozin (<u>FLOZINS</u>)	0.5-1%	GU infections, Polyuria, GU infections, DKA, ?fractures

Cardioprotective Drug Classes are Born!*

<u>GLP-1 RA:</u>

Major Adverse
Cardiovascular Events:



HR 0.86

14% REDUCTION

CV Death:



HR 0.87

13% REDUCTION

*exenatide, and lixisenatide were not shown to reduce MACE. Oral semaglutide did not show benefit in the first CVOT PIONEER

Fatal or Non-fatal Myocardial Infarction:



HR 0.90

10% REDUCTION

Fatal or Non-fatal Stroke:



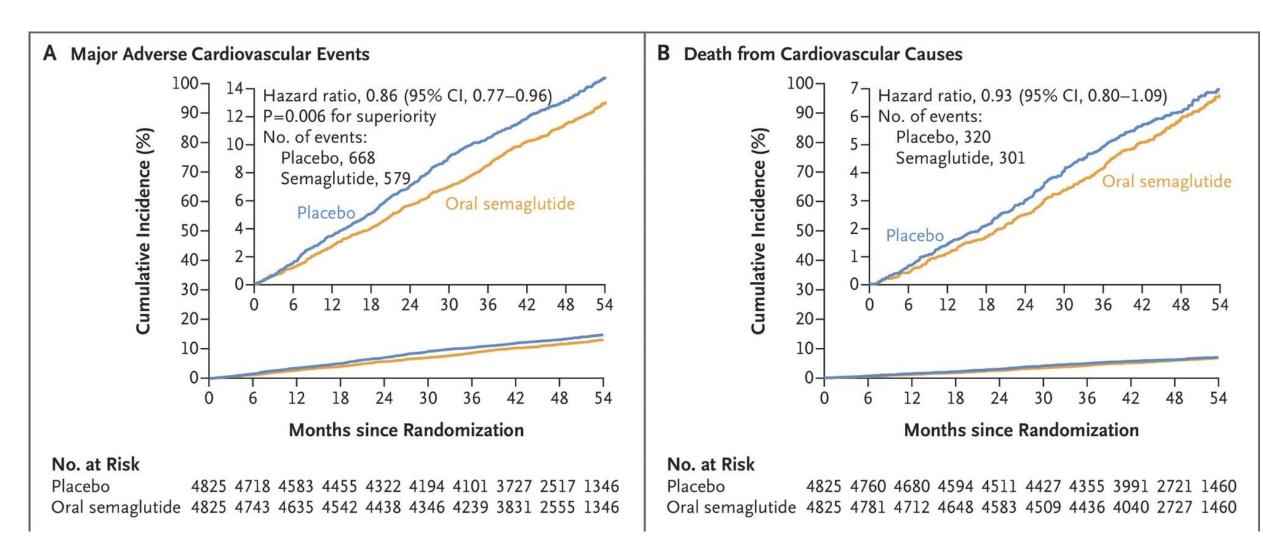
HF 0.83

17% REDUCTION

	GLP-1 receptor agonist, n/N (%)	Placebo, n/N (%)	Hazard ratio (95% CI)	NNT (95% CI)	p value
Three-point MACE					
ELIXA	400/3034 (13%)	392/3034 (13%)	1.02 (0.89-1.17)		0.78
LEADER	608/4668 (13%)	694/4672 (15%)	0.87 (0.78-0.97)		0.01
SUSTAIN-6	108/1648 (7%)	146/1649 (9%)	0.74 (0.58-0.95)		0.016
EXSCEL	839/7356 (11%)	905/7396 (12%)	0.91 (0.83-1.00)		0.061
Harmony Outcomes	338/4731 (7%)	428/4732 (9%)	0.78 (0.68-0.90)		0.000
REWIND	594/4949 (12%)	663/4952 (13%)	0.88 (0.79-0.99)		0.026
PIONEER 6	61/1591 (4%)	76/1592 (5%)	0.79 (0.57-1.11)		0.17
AMPLITUDE-O	189/2717 (7%)	125/1359 (9%)	0.73 (0.58-0.92)		0.006
Subtotal (I ² =44-5%, p=0	-082)		0-86 (0-80-0-93	65 (45-130)	<0.000
Cardiovascular death	,		•		
ELIXA	156/3034 (5%)	158/3034 (5%)	0.98 (0.78-1.22)		0.85
LEADER	219/4668 (5%)	278/4672 (6%)	0-78 (0-66-0-93)		0.007
SUSTAIN-6	44/1648 (3%)	46/1649 (3%)	0.98 (0.65-1.48)		0.92
EXSCEL	340/7356 (5%)	383/7396 (5%)	0.88 (0.76-1.02)		0.096
Harmony Outcomes	122/4731 (3%)	130/4732 (3%)	0.93 (0.73-1.19)		0-58
REWIND	317/4949 (6%)	346/4952 (7%)	0.91 (0.78-1.06)		0-21
PIONEER 6	15/1591 (1%)	30/1592 (2%)	0.49 (0.27-0.92)		0.021
AMPLITUDE-O	75/2717 (3%)	50/1359 (4%)	0.72 (0.50-1.03)		0.07
Subtotal (I ² =13·4%, p=0		,	0-87 (0-80-0-94	163 (103-353)	0-00
Fatal or non-fatal myoca					
ELIXA	270/3034 (9%)	261/3034 (9%)	1.03 (0.87-1.22)		0.71
LEADER	292/4668 (6%)	339/4672 (7%)	0-86 (0-73-1-00)		0.046
SUSTAIN-6	54/1648 (3%)	67/1649 (4%)	0.81 (0.57-1.16)		0.26
EXSCEL	483/7356 (7%)	493/7396 (7%)	0.97 (0.85-1.10)		0.62
Harmony Outcomes	181/4731 (4%)	240/4732 (5%)	0.75 (0.61-0.90)		0-003
REWIND	223/4949 (5%)	231/4952 (5%)	0.96 (0.79-1.15)		0.63
PIONEER 6	37/1591 (2%)	35/1592 (2%)	1.04 (0.66–1.66)		0-49
AMPLITUDE-O	91/2717 (3%)	58/1359 (4%)	0.75 (0.54-1.05)		0.09
Subtotal (I ² =26-9%, p=0			0.90 (0.83-0.98	175 (103-878)	0-020
Fatal or non-fatal stroke			v		
ELIXA	67/3034 (2%)	60/3034 (2%)	1.12 (0.79–1.58)		0.54
LEADER	173/4668 (4%)	199/4672 (4%)	0.86 (0.71–1.06)		0-16
SUSTAIN-6	30/1648 (2%)	46/1649 (3%)	0.65 (0.41-1.03)		0.066
EXSCEL	187/7356 (3%)	218/7396 (3%)	0.85 (0.70-1.03)		0.09
Harmony Outcomes	94/4731 (2%)	108/4732 (2%)	0.86 (0.66-1.14)		0-30
REWIND	158/4949 (3%)	205/4952 (4%)	0-76 (0-62-0-94)		0.010
PIONEER 6	13/1591 (1%)	17/1592 (1%)	0-76 (0-37-1-56)		0-43
AMPLITUDE-O	47/2717 (2%)	31/1359 (2%)	0-74 (0-47-1-17)		0.19
Subtotal (I ² =0-0%, p=0-0		2 . 222 ()	0.83 (0.76-0.92)	198 (140-421)	0-00

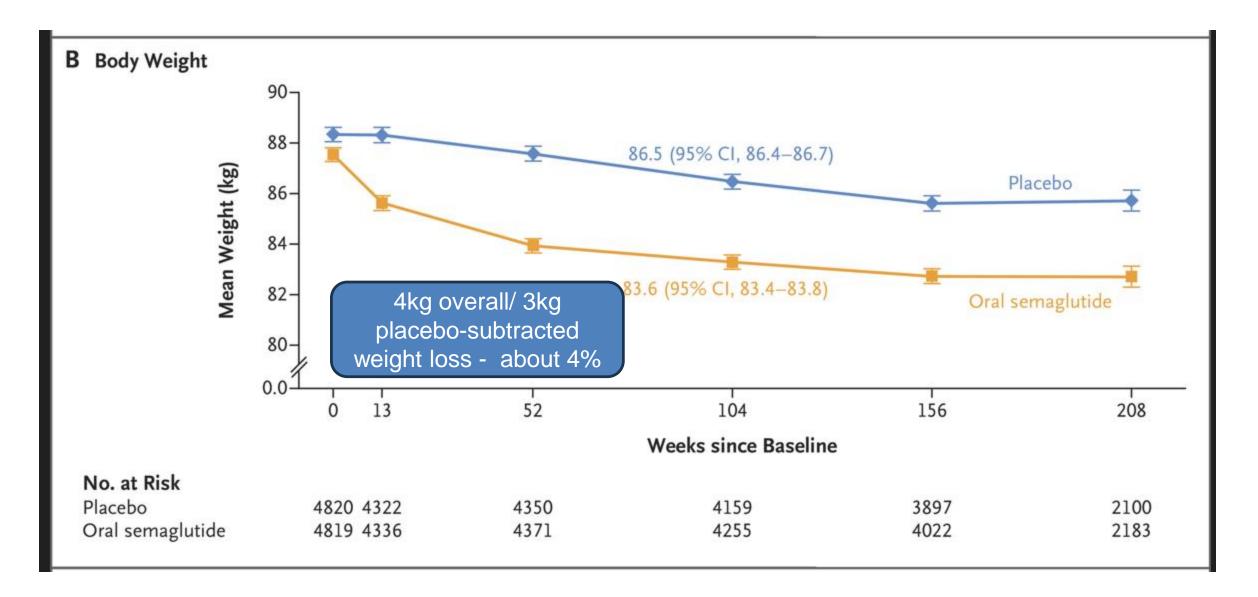
Favours GLP-1 receptor agonists Favours placebo

Oral Semaglutide in T2D + CVD or CKD: the SOUL trial



McGuire DK, et al N Engl J Med. 2025 Mar 29.

Oral semaglutide and weight loss in SOUL trial



Tirzepatide, Dual GLP-1/GIP Agonist

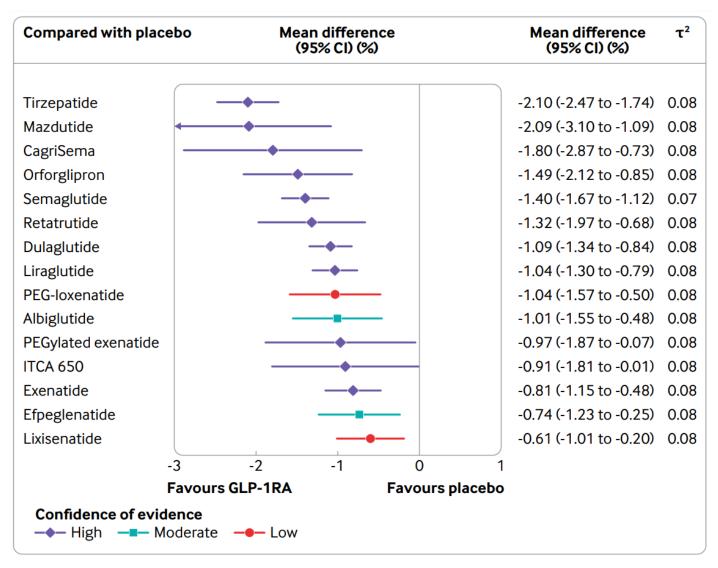
Effects on Cardiovascular Risk Factors¹

More weight loss = more risk factor modification

	Tirzepatide 5 mg	Tirzepatide 10 mg	Tirzepatide 15 mg	Semaglutide 1 mg
A1c (% change)	-2.01	-2.24	-2.3	-1.86
Weight (kg)	-7.6	-9.3	-11.2	-5.7
LDL (% change)	-7.7	-5.8	-5.2	-6.1
HDL (% change)	+6.8	+7.9	+7.1	+4.4
TG (% change)	-19.0	-24.1	-24.8	-11.5
BP (mm Hg)	-4.8/-1.9	-5.3/-2.5	-6.5/-2.9	-3.6/-1.0
Pulse (bpm)	+ 2.3	+2.2	+2.5	+2.6

- Decrease liver fat content by MRI²
- Decrease albuminuria³
- Slower decline in eGFR over time³

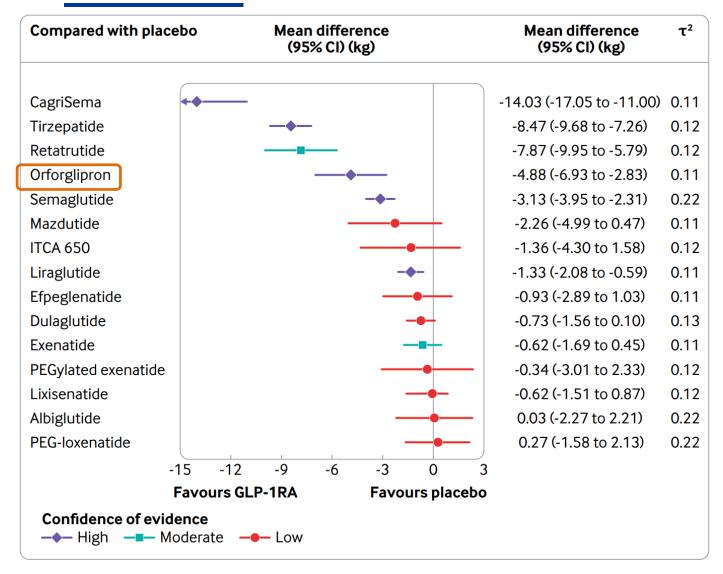
Incretin agents vs. Placebo for HbA1c Reduction



- 56 trials
- n=26,343 Adults with Type 2 Diabetes
- All 15 GLP-1RA drugs showed significant efficacy in reducing HbA1c levels compared with placebo in adults with type 2 diabetes
- Mean difference vs placebo:

Tirzepatide -2.10% (95% CI)
Induced most significant HbA1c
reduction

Incretin agents vs. Placebo for Body Weight Reduction in Diabetes



- 53 trials
- n = 21,349 Adults with Type 2 Diabetes
- Mean difference vs placebo:

CagriSema:

Combination semaglutide + amylin analog

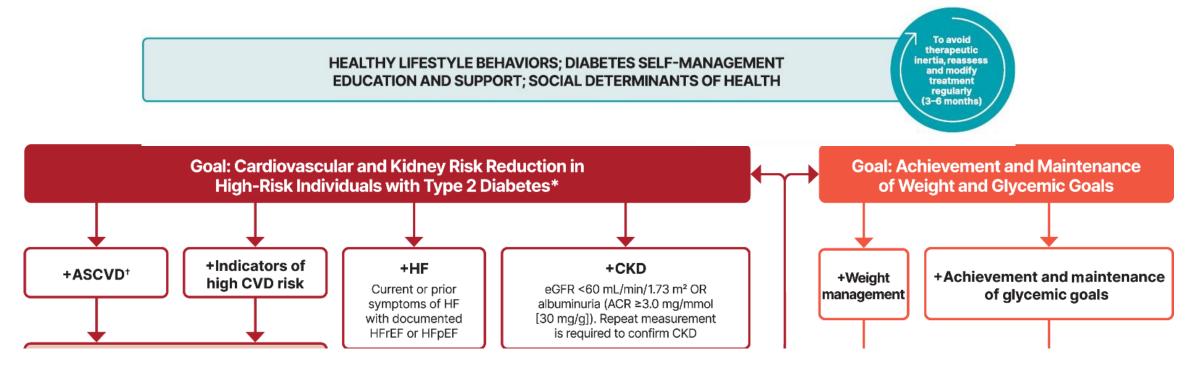
-14.03 kg (>10%): Most effective in lowering body weight in people with <u>diabetes</u>; NOT <u>superior to tirzepetide in non-diabetes obesity</u>

As a result of >10 RCTs and >50,000 patients studied... Step-wise therapy is out the window

<u>ADA</u>: Pharmacologic therapy should be guided by person-centered treatment factors, including comorbidities and treatment goals.

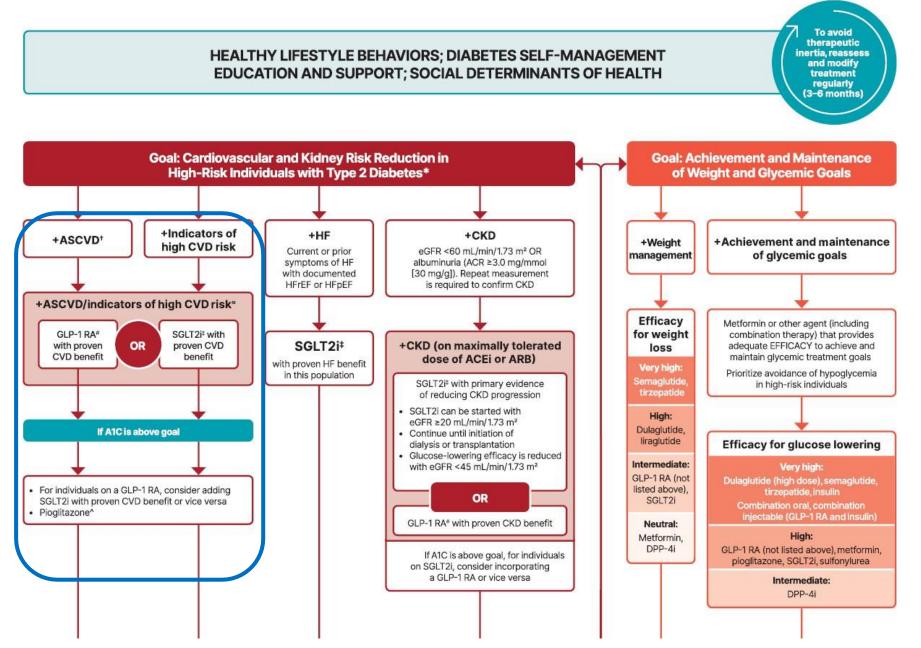
Pharmacologic approaches that provide the efficacy to achieve treatment goals should be considered, <u>such as metformin or other agents</u>, including combination therapy, that provide adequate efficacy to achieve and maintain treatment goals.

ADA approach: Step 1 is to decide on a priority/goal



<u>Implied point throughout the guidance</u>: It is ideal to choose medications that can achieve more than one of these goals simultaneously; this is not always feasible

Use of Glucose-Lowering Medications in the Management of Type 2 Diabetes

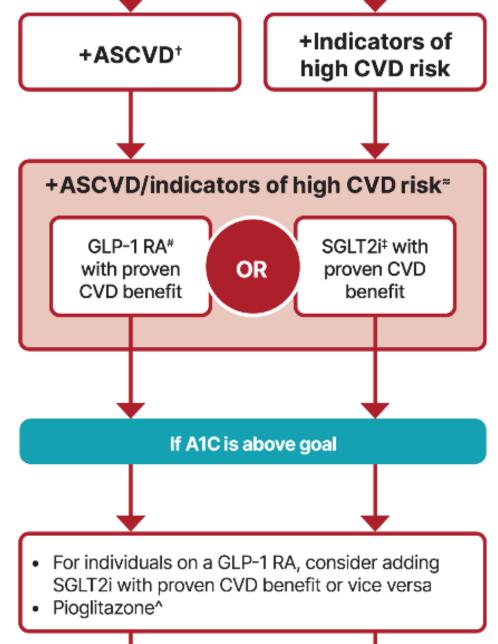


Pharmacologic Approaches to Glycemic Treatment: Standards of Care in Diabetes - 2025 Diabetes Care 2025;48(Suppl. 1):S181-S206

Priority: Atherosclerotic Cardiovascular Disease

(ASCVD) *

liraglutide semaglutide (SQ) and dulaglutide



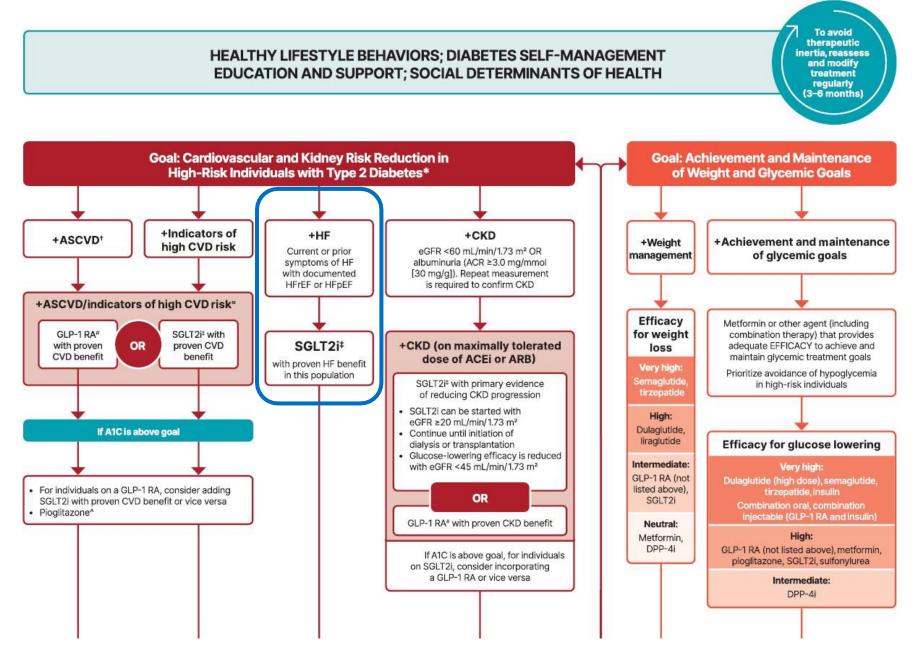
Empagliflozin, canagliflozin, dapagliflozin

ASCVD or High Risk*

STROKE

*end-organ damage including retinopathy or LVH Or

Multiple CV risk factors (age, HTN, smoking, dyslipidemia, obesity



Pharmacologic Approaches to Glycemic Treatment: Standards of Care in Diabetes - 2025 Diabetes Care 2025;48(Suppl. 1):S181-S206

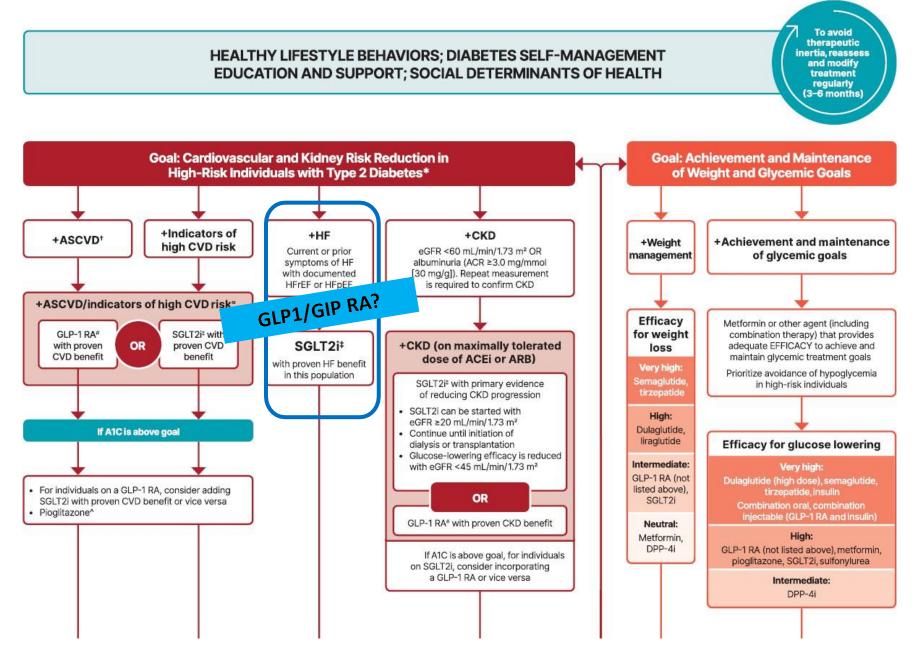
Priority: Heart Failure

 SGLT2i now clearly indicated for <u>both</u> HFpEF and HFrEF

Dapagliflozin and empagliflozin have primary heart failure outcome data.

Empagliflozin, canagliflozin, and dapagliflozin and ertugliflozin have shown reduction in HF in CVOTs.

+HF Current or prior symptoms of HF with documented HFrEF or HFpEF +HF SGLT2i[§] with proven HF benefit in this population



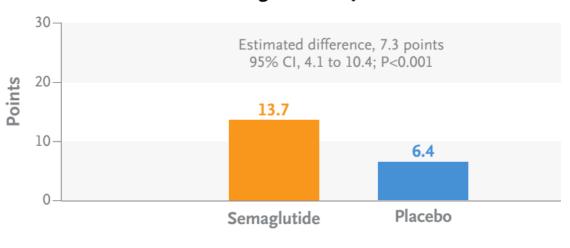
Pharmacologic Approaches to Glycemic Treatment: Standards of Care in Diabetes - 2025 Diabetes Care 2025;48(Suppl. 1):S181-S206

GLP-1 benefit found in HFpEF ...HFrEF benefit is unclear

In patients with type 2 diabetes and heart failure with preserved ejection fraction, once-weekly semaglutide led to fewer heart failure-related symptoms and physical limitations and greater weight loss than placebo at 1 year

Some concerns remain re: initiating GLP-1 RA in HFrEF due to equivocal study results with liraglutide (LIVE and FIGHT trials)

Mean Change in KCCQ-CSS at 52 Wk*

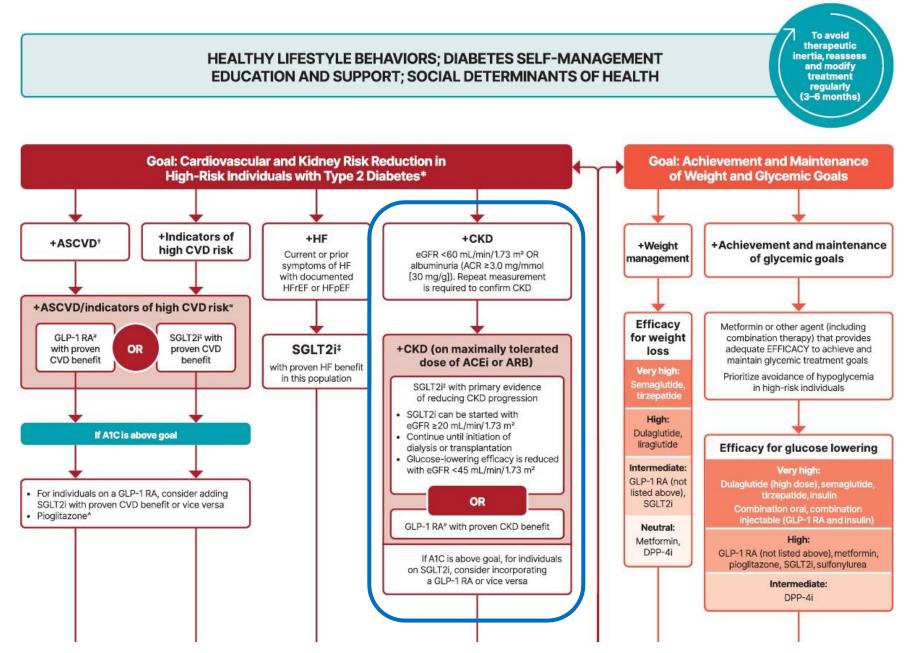


Mean Change in Body Weight at 52 Wk*



*Based on ANCOVA, with imputation for missing values.

Kansas City Cardiomyopathy Questionnaire 41



Priority: Kidney disease (CKD)

- Key points:
- Ok to start with GFR as low as 20ml/min/1.73m²
- In those with UACR >/= 300 goal is to reduce UACR by 30%+
- Combination therapy with both SGLt2i and GLP-1 as needed to achieve A1c target is recommended

+CKD eGFR <60 mL/min/1.73 m² OR albuminuria (ACR ≥3.0 mg/mmol [30 mg/g]). Repeat measurement is required to confirm CKD +CKD (on maximally tolerated dose of ACEi or ARB) SGLT2i[‡] with primary evidence of reducing CKD progression SGLT2i can be started with eGFR ≥20 mL/min/1.73 m² · Continue until initiation of dialysis or transplantation · Glucose-lowering efficacy is reduced

canagliflozin, dapagliflozin

empagliflozin

liraglutide semaglutide (SQ) and dulaglutide

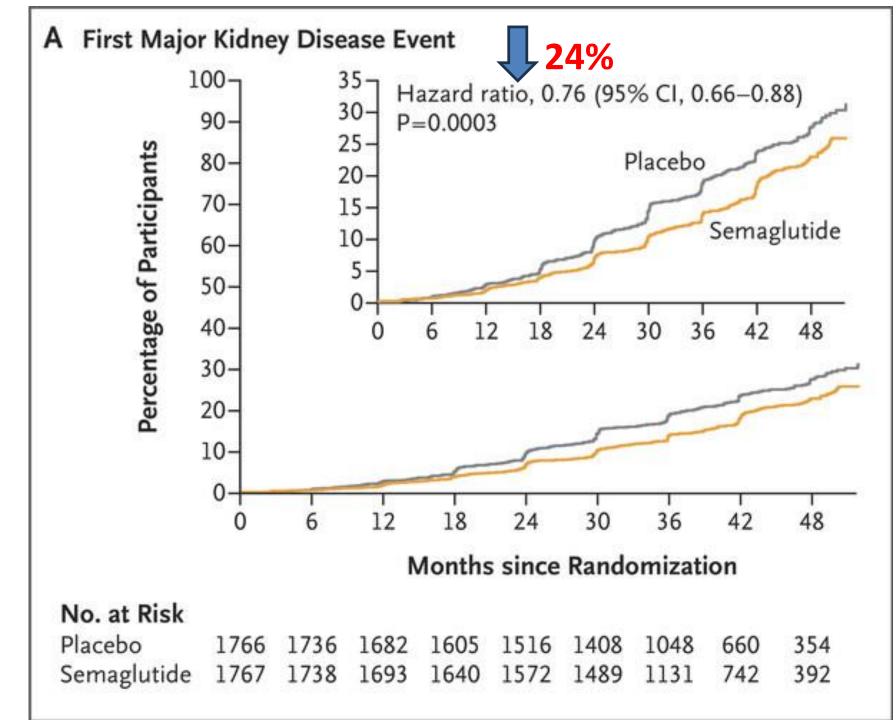
OR

with eGFR <45 mL/min/1.73 m²

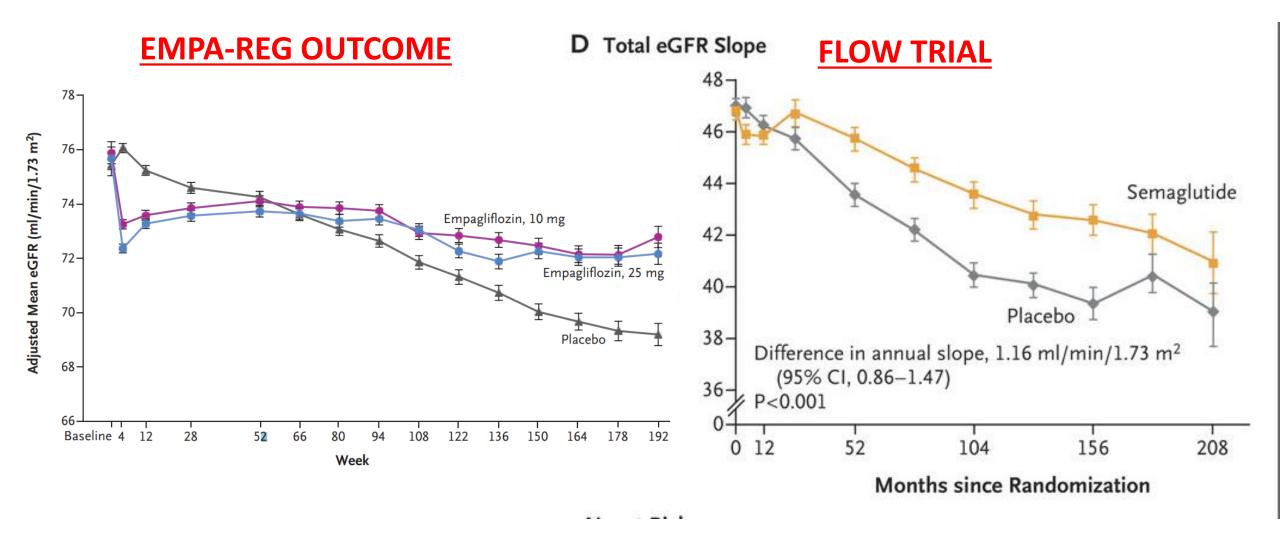
GLP-1 RA# with proven CKD benefit

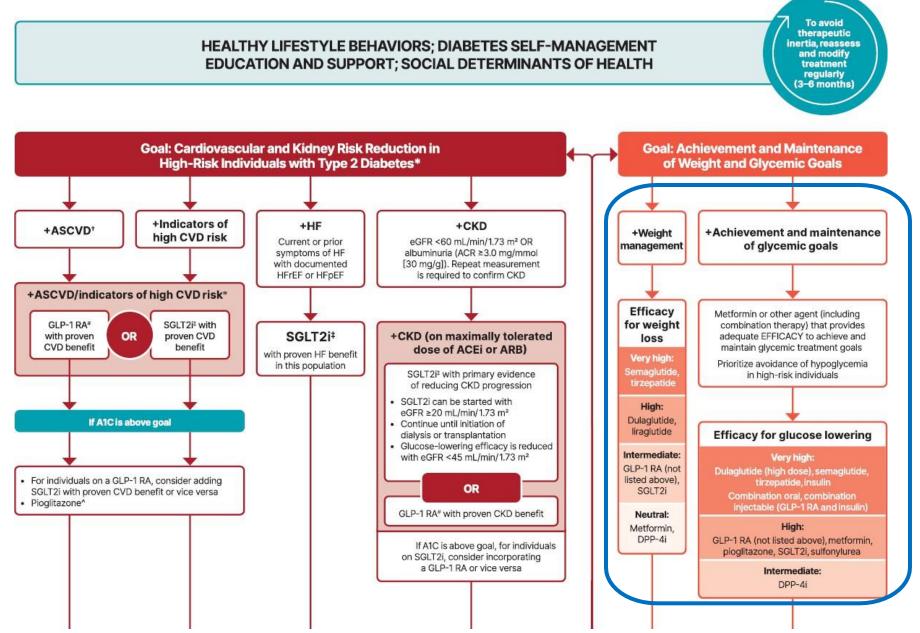
If A1C is above goal, for individuals on SGLT2i, consider incorporating a GLP-1 RA or vice versa GLP-1 RA kidney benefit is probably real

FLOW primary outcome



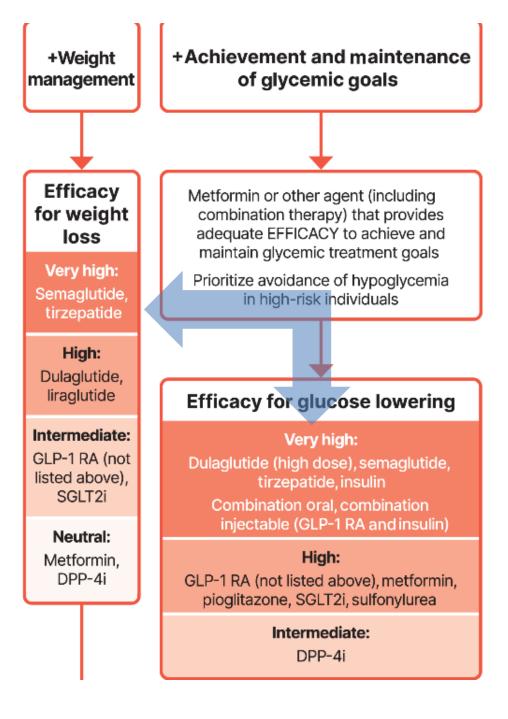
eGFR Slope: Empagliflozin vs. Semaglutide





Pharmacologic Approaches to Glycemic Treatment: Standards of Care in Diabetes - 2025 Diabetes Care 2025;48(Suppl. 1):S181-S206

Priority: Metabolic control



Sulfonylureas

Choose glimepiride or gliclazide (outside US) as first line. Avoid glyburide

- Glimeperide is the only SU tested in a CVOT; compared with linagliptin no difference in CV risk and hypoglycemia risk was lower than expected
- Gliclazide has lowest reported hypoglycemia risk

Remember that SUs will fail

- Can appear to happen suddenly
- Typically not useful to increase beyond 10mg daily if A1c has risen >0.5%
- Best approach is to add another agent and taper the SU off (stopping suddenly can cause hyperglycemia even when effectiveness is reduced)

Thiazolidinediones (TZD)

- Pros: ok in <u>euvolemic</u> advanced kidney disease, potent
- **Cons:** weight gain, edema/CHF, CV controversy, increased fractures in women, (urologic cancers? unclear, FDA avoid if family history)
- Select the right patient & dose:
 - Fatty liver
 - TIA, stroke history
 - MI history, normal EF, unable to take SGLT2i or GLP-1
 - Side effects are dose-dependent use 15mg, avoid max dose

Initiating insulin: assuming GLP-1 RA or other noninsulin therapies considered and/or optimized

Taper
off SU
in most
cases
to
reduce
hypo-G
risk

Add basal insulin

Initial dose 10 units or 0.1-0.2 units/kg
Titrate based on self-monitored fasting plasma glucose*

If above HbA1c goal

Add mealtime insulin at main meal of the day

Start with 4 units or 10% of basal dose
Titrate based on self-monitored post-prandial glucose

If above HbA1c goal

Add mealtime insulin at other meals

If using pre-mixed insulin, dose up to twice daily

Beta cell replacement therapy for insulin deficient diabetes: Overview

Whole organ pancreas transplant

- Most commonly available to those with advanced kidney disease in the form of Simultaneous Pancreas and Kidney (SPK) transplant or Pancreas after Kidney (PAK) due to increased overall benefit relative to risk
- Some centers in the US and Europe offer Pancreas alone for patients who demonstrate serious morbidity related to hyperglycemia/hypoglycemia

Cell therapy

- Cadaveric islets infused into portal vein is offered at select sites in the US; requires multiple infusions; FDA approved for those with recurrent, severe hypoglycemia
- Stem cell-derived islet cell therapies look promising but still in safety trials

Summary

- Priority-focused approach to diabetes management is superior to a "glucocentric" approach
- Treating obesity effectively (10-15% loss/10-20kg) by any means yields optimal outcomes for both prevention and disease control in type 2 diabetes
- Long-term maintenance of lost weight/reduced adiposity for metabolic control is best achieved with metabolic surgery, but the Rx landscape continues to expand
- Improved access to effective therapies for obesity-focused, holistic care of people with type 2 diabetes should be a global priority along with prevention





Selected references

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- Franz, M, Evert A. The American Diabetes Association Guide to Nutrition Therapy for Diabetes, 3rd ed. Arlington, VA: American Diabetes Association; 2017:17-44. (update in 2025)

