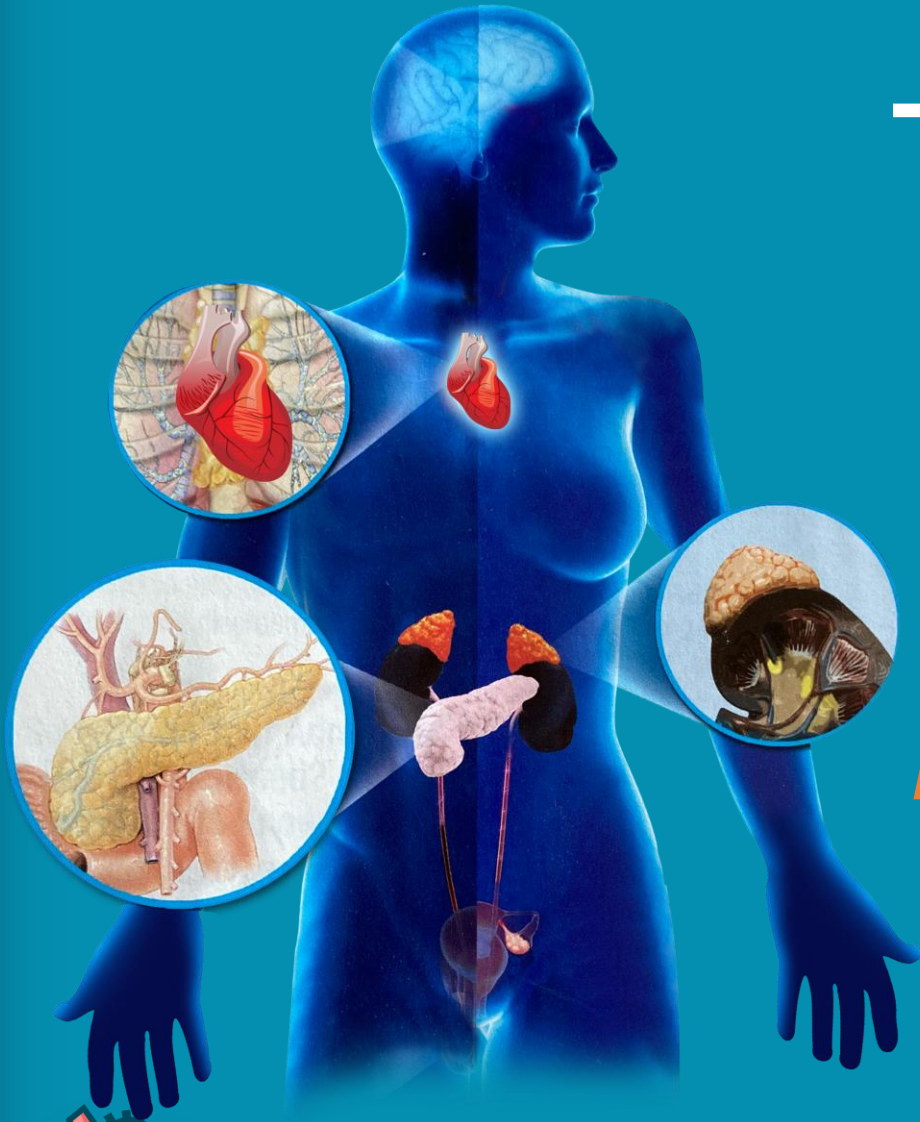


T2DM & CVD



Elkin A. Nunez MD

Director of Endocrinology, Diabetes & Metabolism

Atlantic Health System

Section Chair of Endocrinology

Morristown Medical Center



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Cors
at the
Shore

The Prevalence of T2DM is Rapidly Increasing

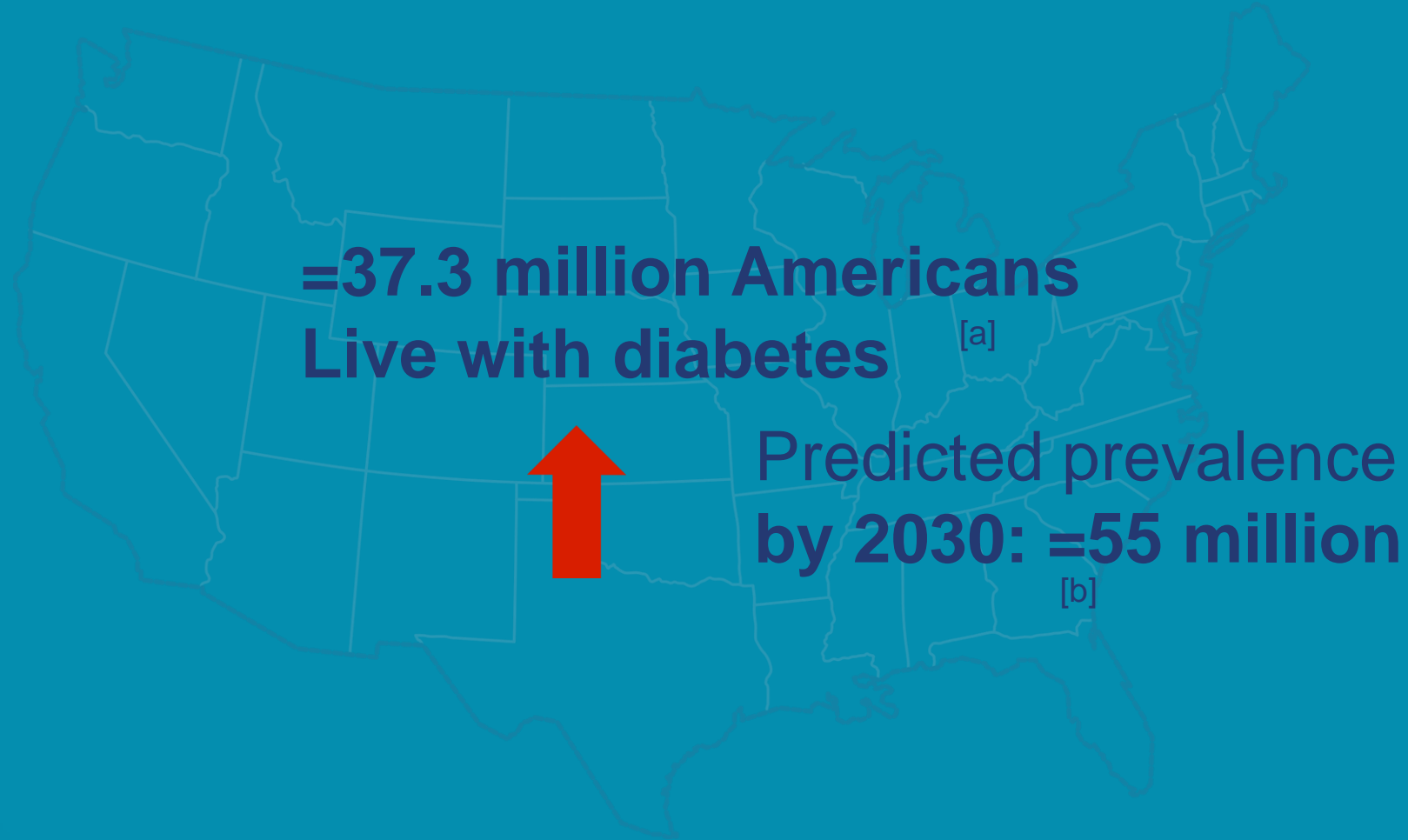
**=37.3 million Americans
Live with diabetes [a]**



2 0 2 3
**Cors
at the
Shore**

a. Centers for Disease Control and Prevention. July 18, 2017. Accessed November 10, 2021. <https://www.cdc.gov/media/releases/2017/p0718-diabetes-report.html>; b. Rowley WR, et al. Popul Health Manag. 2017;20:6-12.

The Prevalence of T2D Is Rapidly Increasing



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**Cors
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Shore**

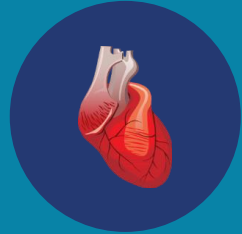
a. Centers for Disease Control and Prevention. July 18, 2017. Accessed November 10, 2021. <https://www.cdc.gov/media/releases/2017/p0718-diabetes-report.html>; b. Rowley WR, et al. Popul Health Manag. 2017;20:6-12.

The Link Between T2D and CV Disease



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at the
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CVD is the Leading Cause of Death in Adults With T2D



2-4 x rate
of CVD^[a]



Risk of stroke
(RR 1.8-6.0)^[a]



2 x rate
Of HF^[a]



50% greater rate
Of CV death^[b]

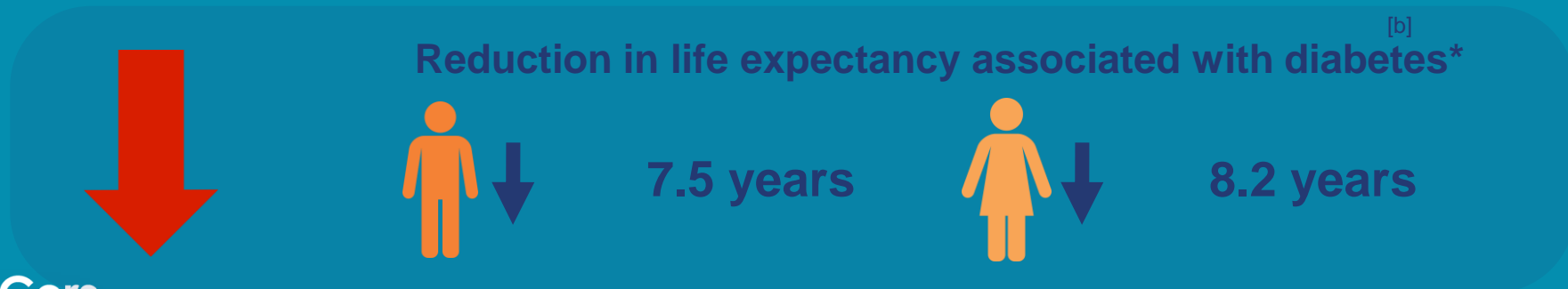
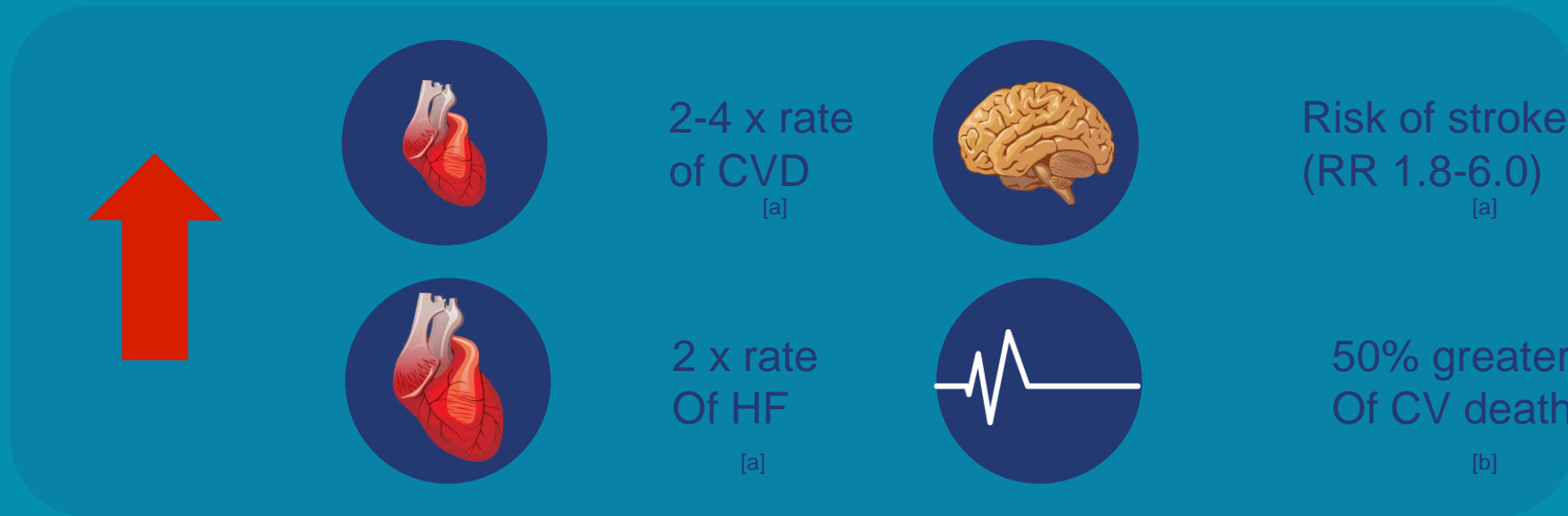


2 0 2 3
**Cors
at the
Shore**

*For adults \geq 50 years old.
CVD, cardiovascular disease; HF, heart failure.

a. Go AS et al. *Circulation*. 2014;129:e28-e292. b. Franco OH et al. *Arch Intern Med*. 2007;167:1145-1151.

CVD is the Leading Cause of Death in Adults With T2D



REPORTCARD

Among US adults aged 18 years or older with diagnosed diabetes, crude estimates for 2015–2018

- 89.8% were overweight or had obesity, defined as a body mass index (BMI) of 25 kg/m² or higher
- 49.4% had an A1C value of 7.0% or higher
- 69.0% had a systolic blood pressure of 140 mmHg or higher or diastolic blood pressure of 90 mmHg or higher or were on prescription medication for their high blood pressure
- 44.3% had a non-HDL level of 130 mg/dL or higher

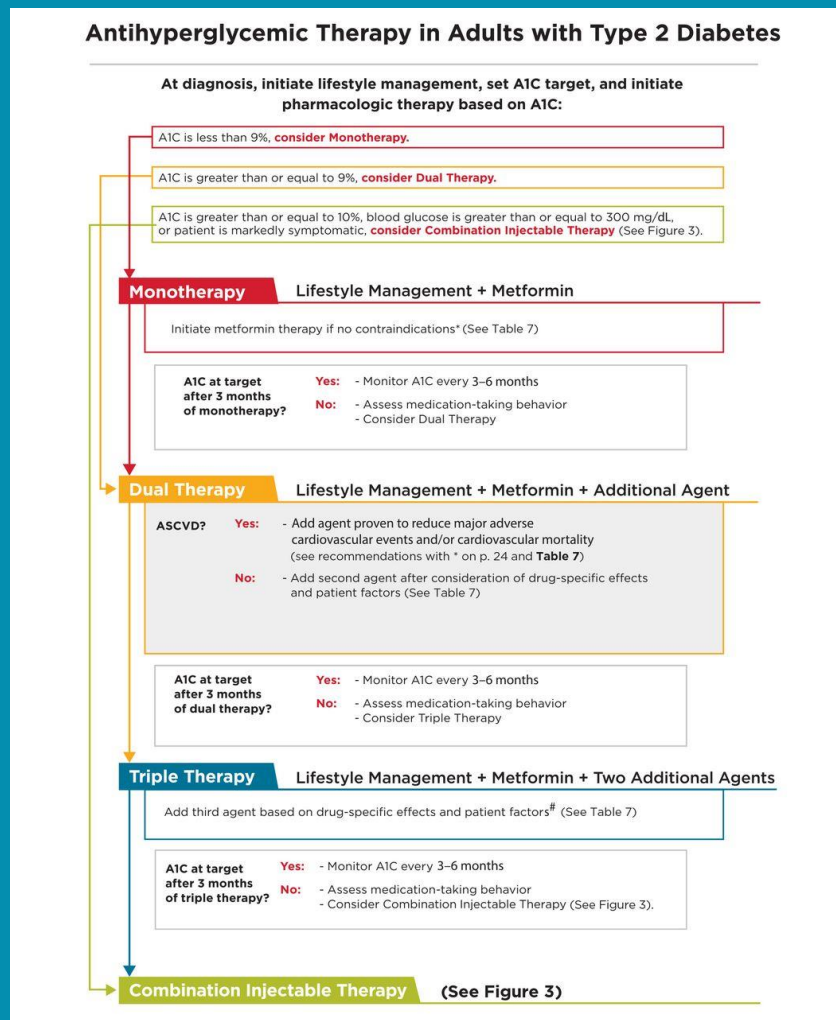


So, what is the good news doc?



2 0 2 3
Cors
at the
Shore

Clin Diabetes. 2018;36(1):14-37. doi:10.2337/cd17-0119

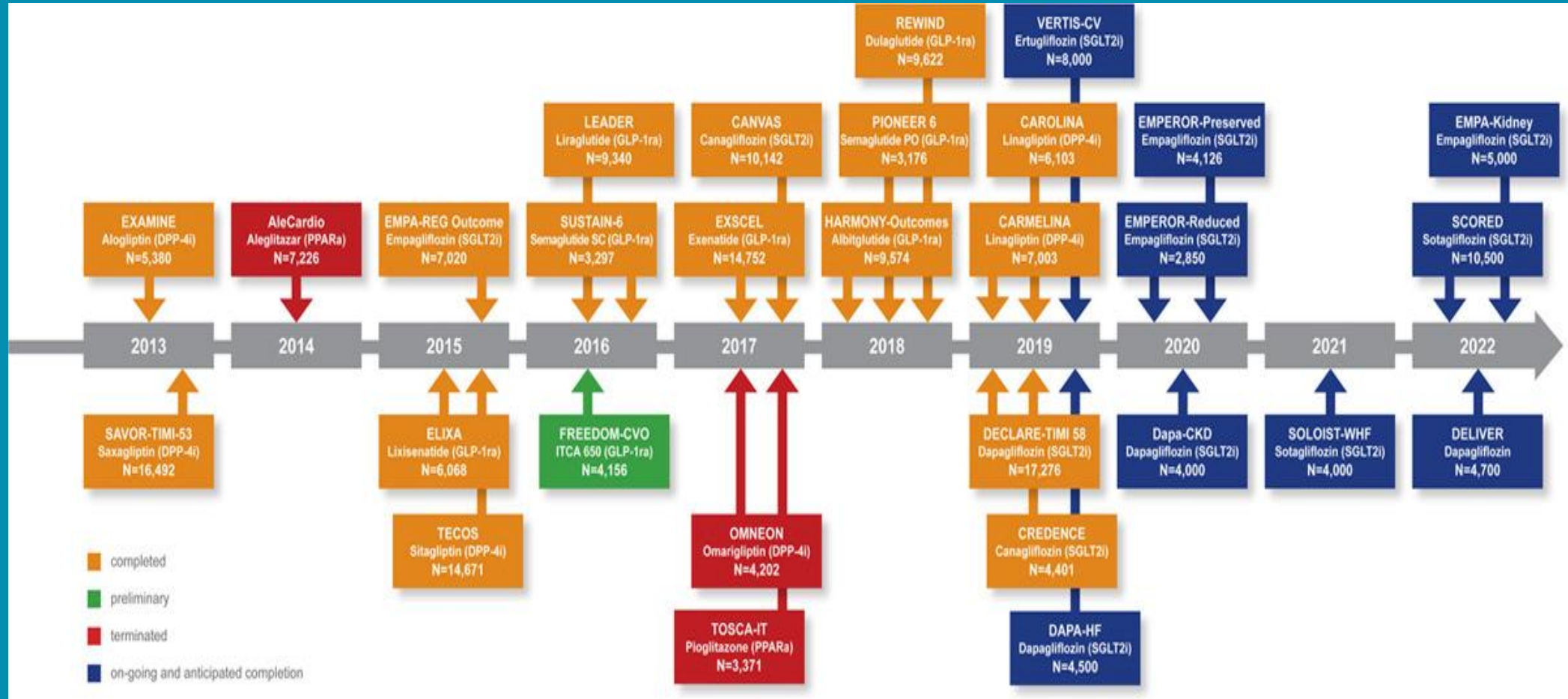


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**Cora
at the
Shore**

Figure Legend:

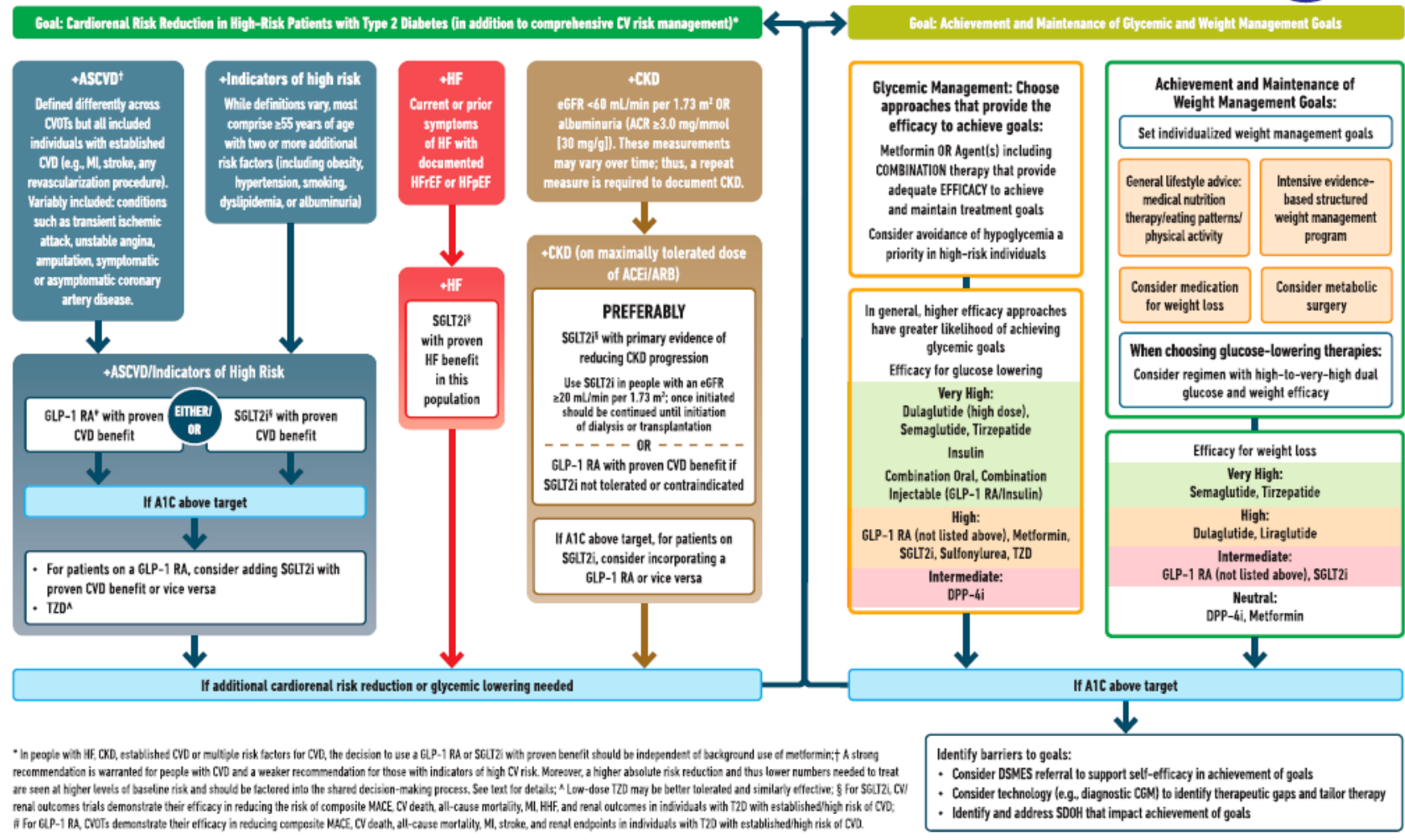
Antihyperglycemic therapy in type 2 diabetes: general recommendations. *If patient does not tolerate or has contraindications to metformin, consider agents from another class in Table 7. #GLP-1 receptor agonists and DPP-4 inhibitors should not be prescribed in combination. If a patient with ASCVD is not yet on an agent with evidence of cardiovascular risk reduction, consider adding.

CV & Renal Outcomes Trials in T2DM



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; ‡ Low-dose TZD may be better tolerated and similarly effective; § For SGLT2i, CV/renal outcomes trials demonstrate their efficacy in reducing the risk of composite MACE, CV death, all-cause mortality, MI, HF, and renal outcomes in individuals with T2D with established/high risk of CVD; ¶ 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.

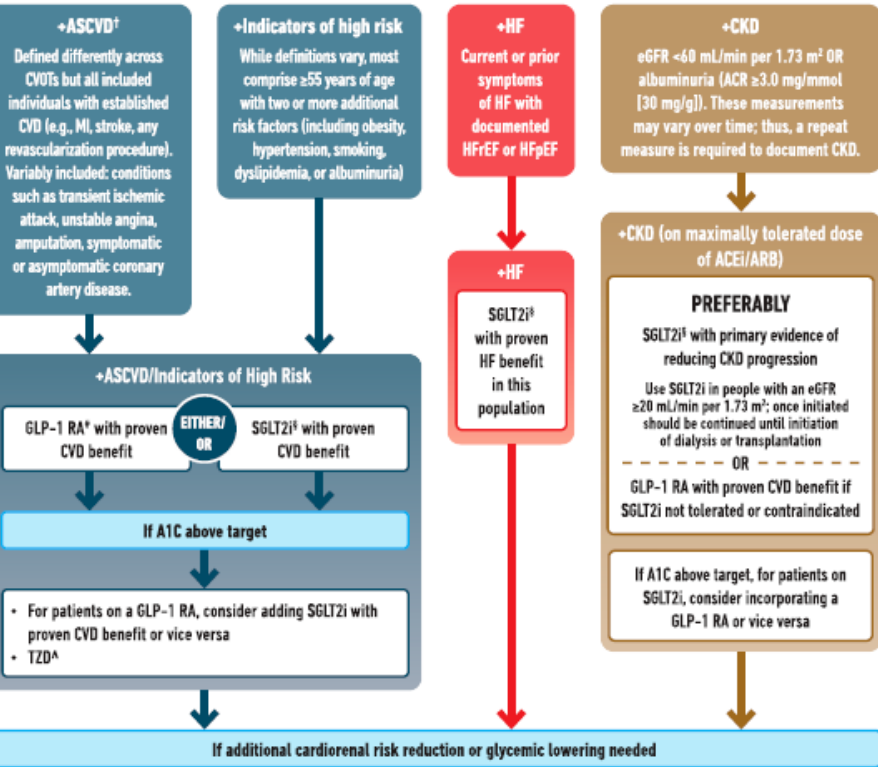


USE OF GLUCOSE-LOWERING MEDICATIONS IN THE MANAGEMENT OF TYPE 2 DIABETES

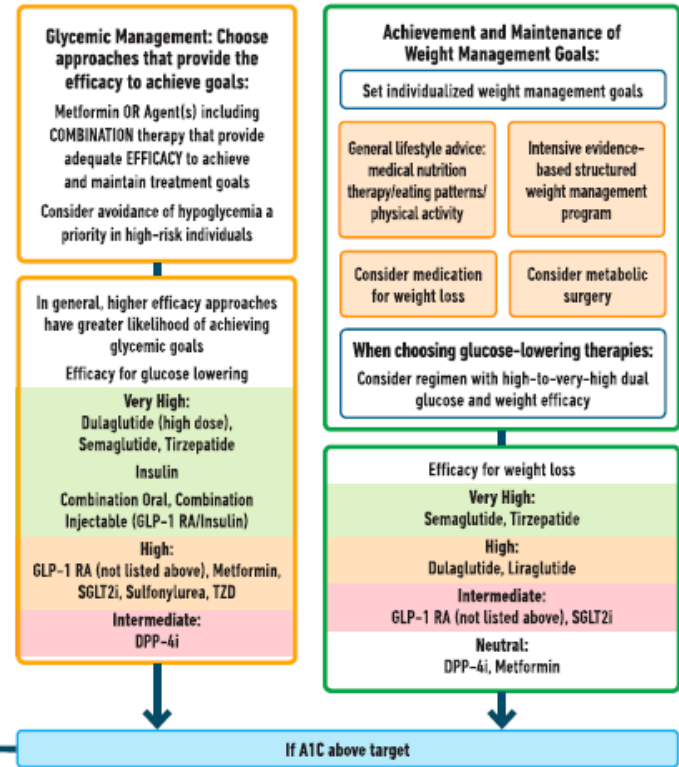
HEALTHY LIFESTYLE BEHAVIORS; DIABETES SELF-MANAGEMENT EDUCATION AND SUPPORT (DSMES); SOCIAL DETERMINANTS OF HEALTH (SDOH)



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



* 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; ‡ Low-dose TZD may be better tolerated and similarly effective; § For SGLT2i, CV renal outcomes trials demonstrate their efficacy in reducing the risk of composite MACE, CV death, all-cause mortality, MI, HF, and renal outcomes in individuals with T2D with established/high risk of CVD; ¶ For GLP-1 RA, CVOTs 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.

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

First-line: Metformin + Lifestyle Changes

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

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Goal: Achievement and Maintenance of Glycemic and Weight Management Goals

+ASCVD[†]
Defined differently across CVOTs but all included individuals with established CVD (e.g., MI, stroke, any revascularization procedure). Variably included: conditions such as transient ischemic attack, unstable angina, amputation, symptomatic or asymptomatic coronary artery disease.

+Indicators of high risk
While definitions vary, most comprise ≥55 years of age with two or more additional risk factors (including obesity, hypertension, smoking, dyslipidemia, or albuminuria)

+HF
Current or prior symptoms of HF with documented HFrEF or HFpEF

+CKD
eGFR <60 mL/min per 1.73 m² OR albuminuria (ACR ≥3.0 mg/mmol [30mg/g]). These measurements may vary over time; thus, a repeat measure is required to document CKD.

+ASCVD/Indicators of High Risk
GLP-1 RA* with proven CVD benefit **EITHER/OR** SGLT2i[§] with proven CVD benefit

+HF
SGLT2i[§] with proven HF benefit in this population

+CKD (on maximally tolerated dose of ACEi/ARB)
PREFERABLY
SGLT2i[§] with primary evidence of reducing CKD progression
Use SGLT2i in people with an eGFR ≥20 mL/min per 1.73 m²; once initiated should be continued until initiation of dialysis or transplantation
OR
GLP-1 RA with proven CVD benefit if SGLT2i not tolerated or contraindicated

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

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

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, Sulfonylurea, TZD
Intermediate: DPP-4i

Efficacy for weight loss
Very High: Semaglutide, Tirzepatide
High: Dulaglutide, Liraglutide
Intermediate: GLP-1RA (not listed above), SGLT2i
Neutral: DPP-4i, Metformin

If HbA_{1c} above target
• For patients on a GLP-1 RA consider adding SGLT2i with proven CVD benefit or vice versa
• TZD[^]

If HbA_{1c} above target

If HbA_{1c} above target, for patients on SGLT2i, consider incorporating a GLP-1 RA or vice versa

If HbA_{1c} above target

If HbA_{1c} above target

If additional cardiorenal risk reduction or glycemic lowering needed

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

First-line: **DSME +/- Metformin**

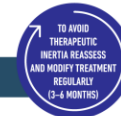


ASCVD, High risk, CKD, or HF?

* 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; ^ Low-dose TZD may be better tolerated and similarly effective; § For SGLT2i, CV/renal outcomes trials demonstrate their efficacy in reducing the risk of composite MACE, CV death, all-cause mortality, MI, HF, and renal outcomes in individuals with T2D with established/high risk of CVD; # For GLP-1 RA, CVOTs 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.

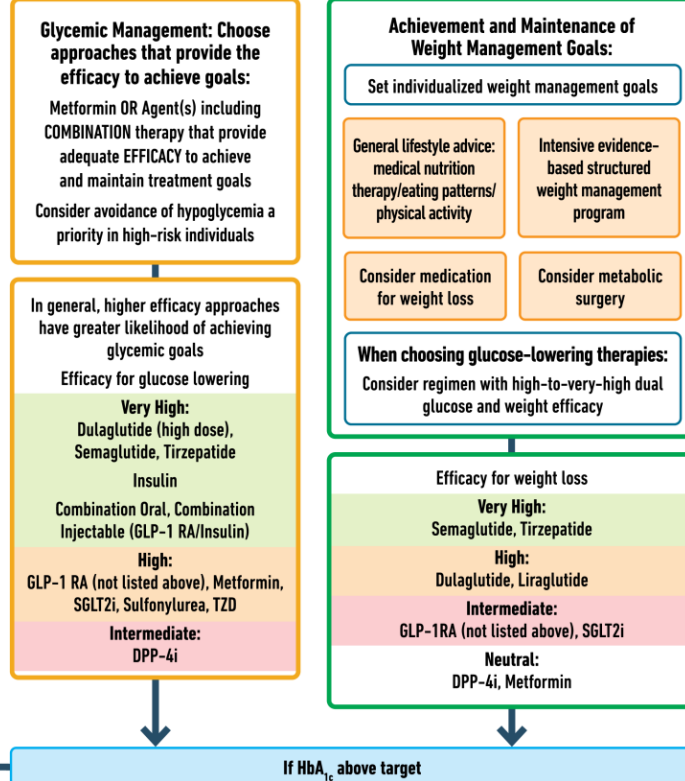
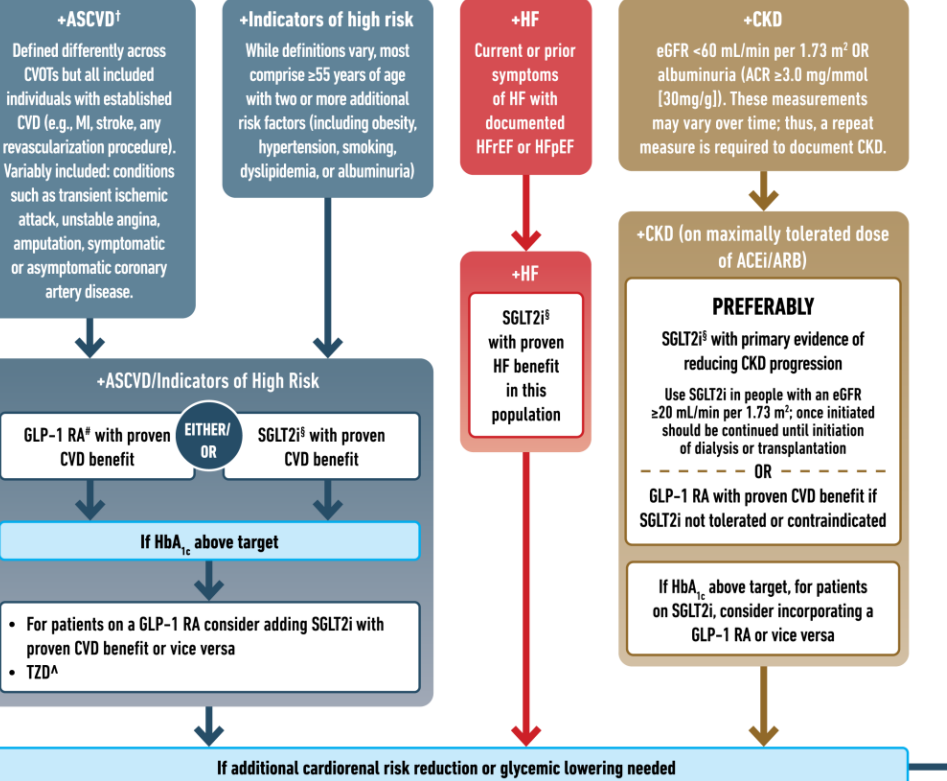
USE OF GLUCOSE-LOWERING MEDICATIONS IN THE MANAGEMENT OF TYPE 2 DIABETES

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Identify barriers to goals:

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- Consider technology (e.g., diagnostic CGM) to identify therapeutic gaps and tailor therapy
- Identify and address SDOH that impact achievement of goals

First-line: DSME +/- Metformin

ASCVD, High Risk, CKD, or HF?

Yes

GLP-1 RA or SGLT2i

* 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; ‡ Low-dose TZD may be better tolerated and similarly effective; § 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; # For GLP-1 RA, CVOTs 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.

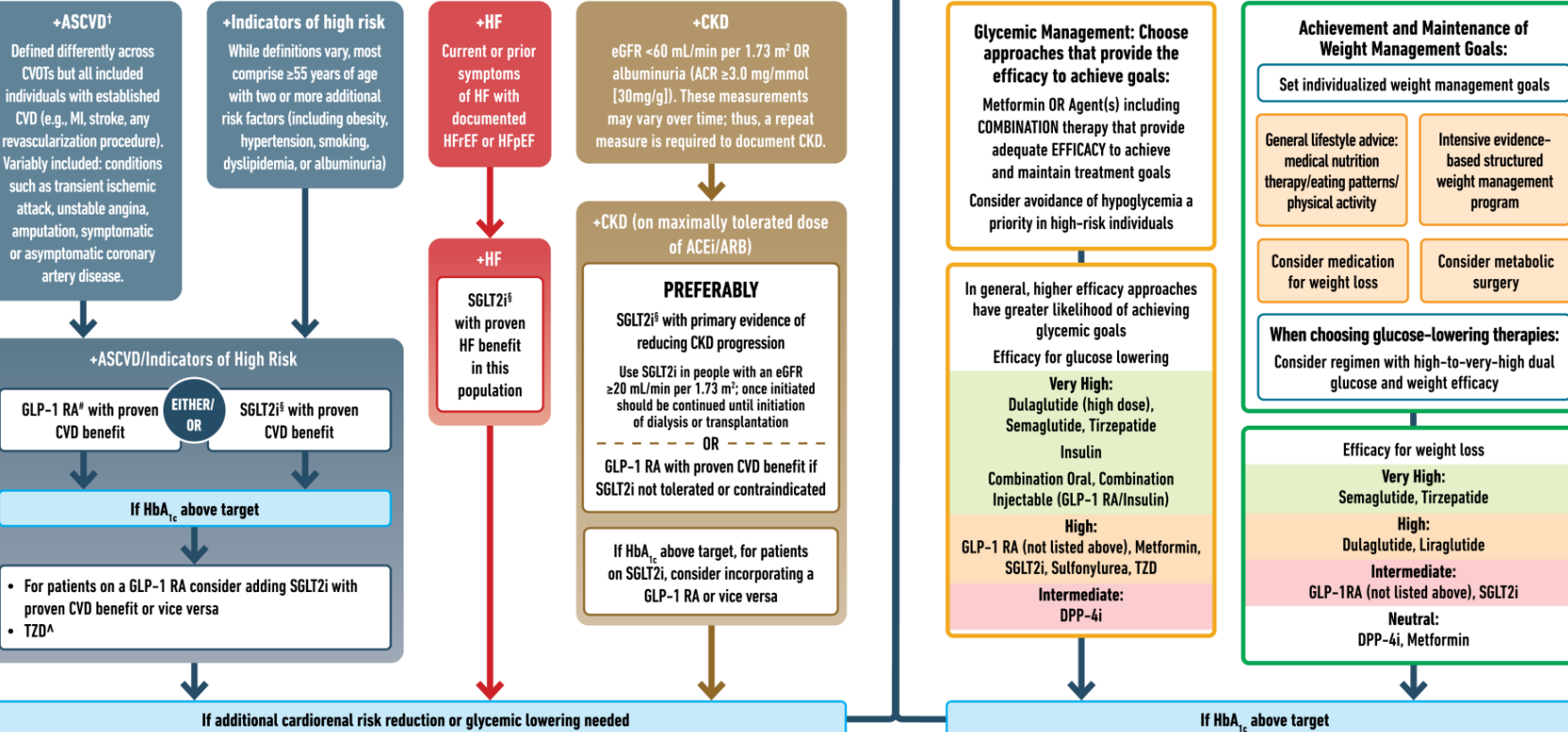
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ASCVD, High Risk, CKD, or HF?



No

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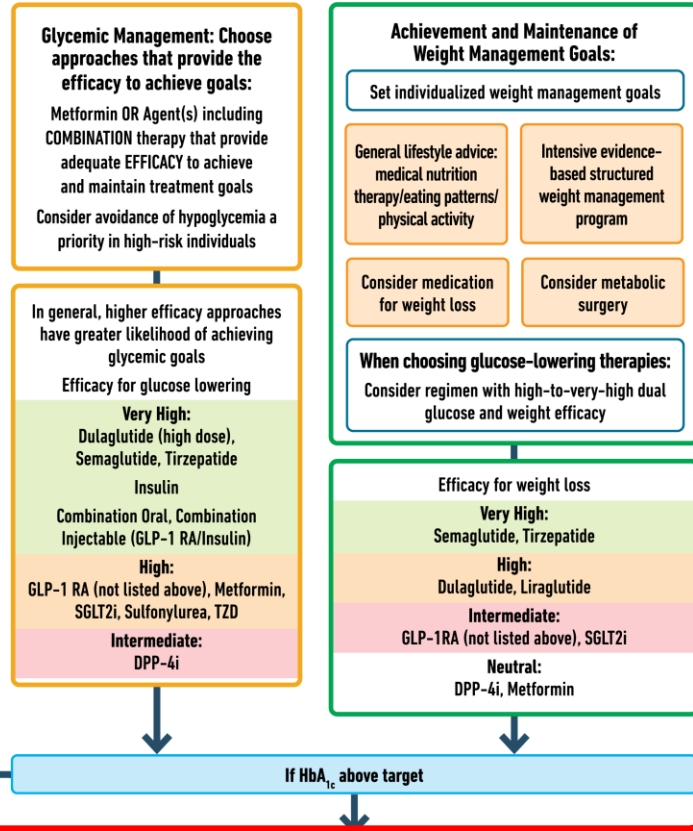
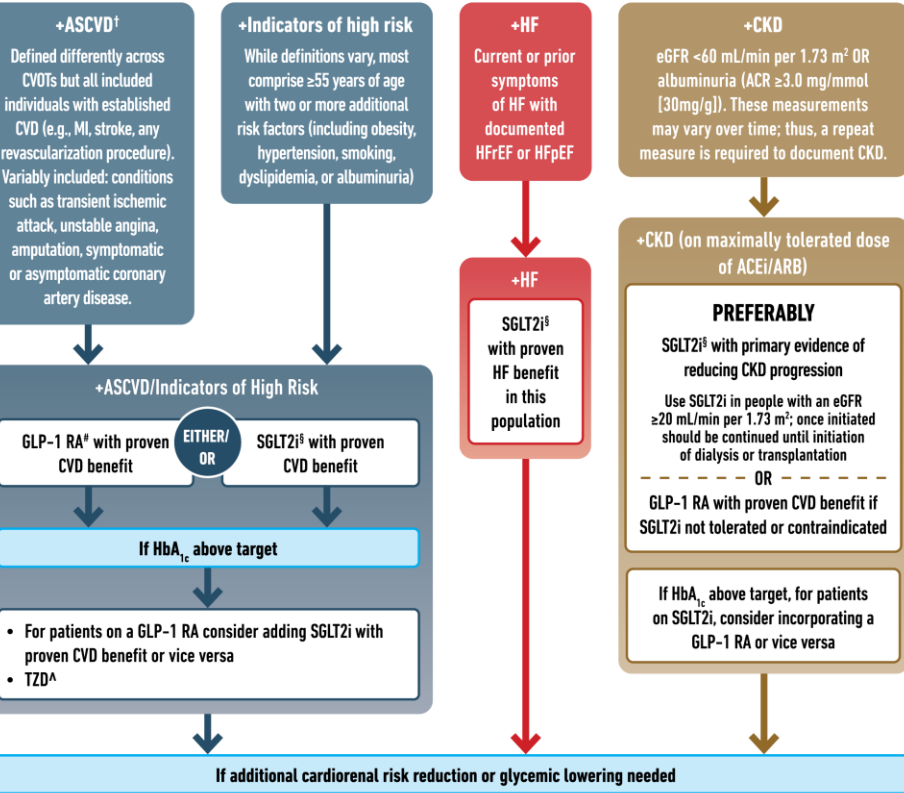
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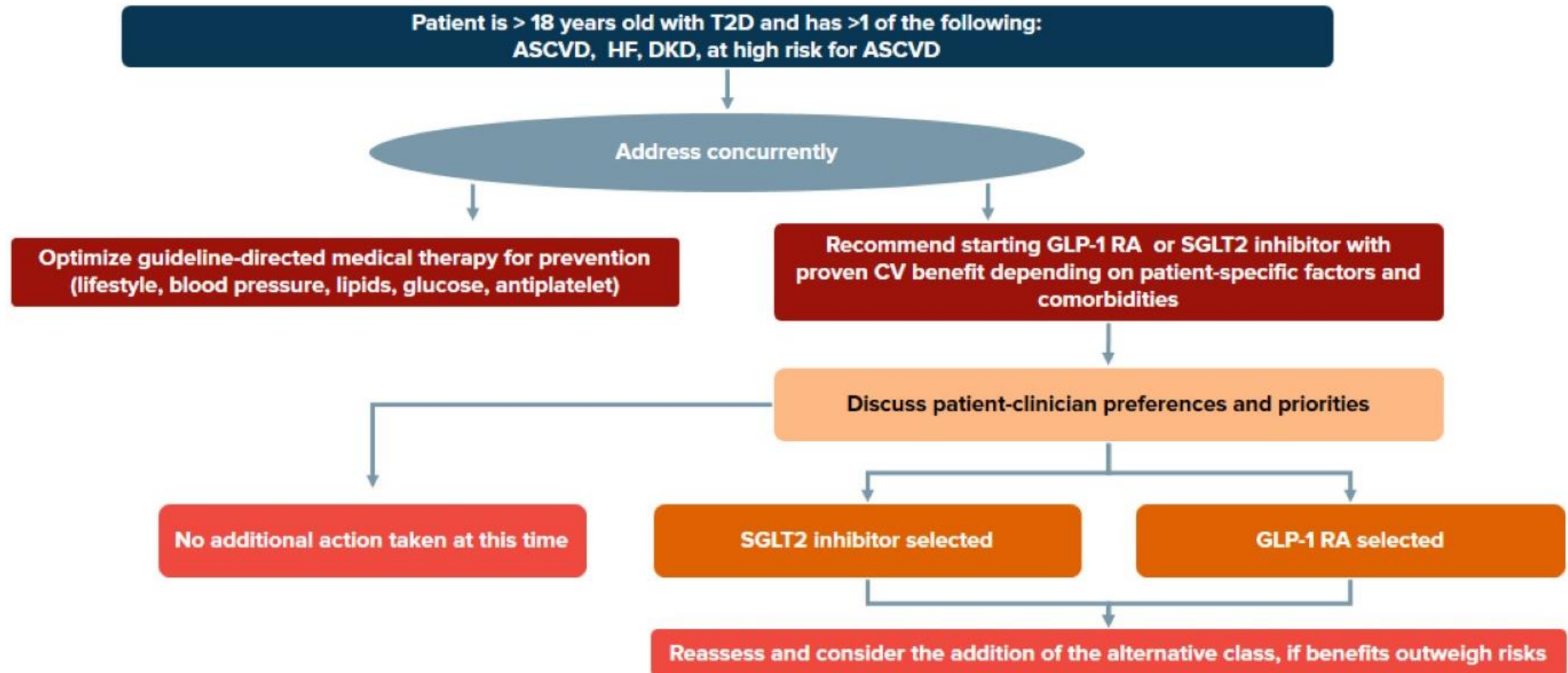
ASCVD, High Risk, CKD, or HF?

Treatment decisions should Account for hyperglycemia, Weight, and cost

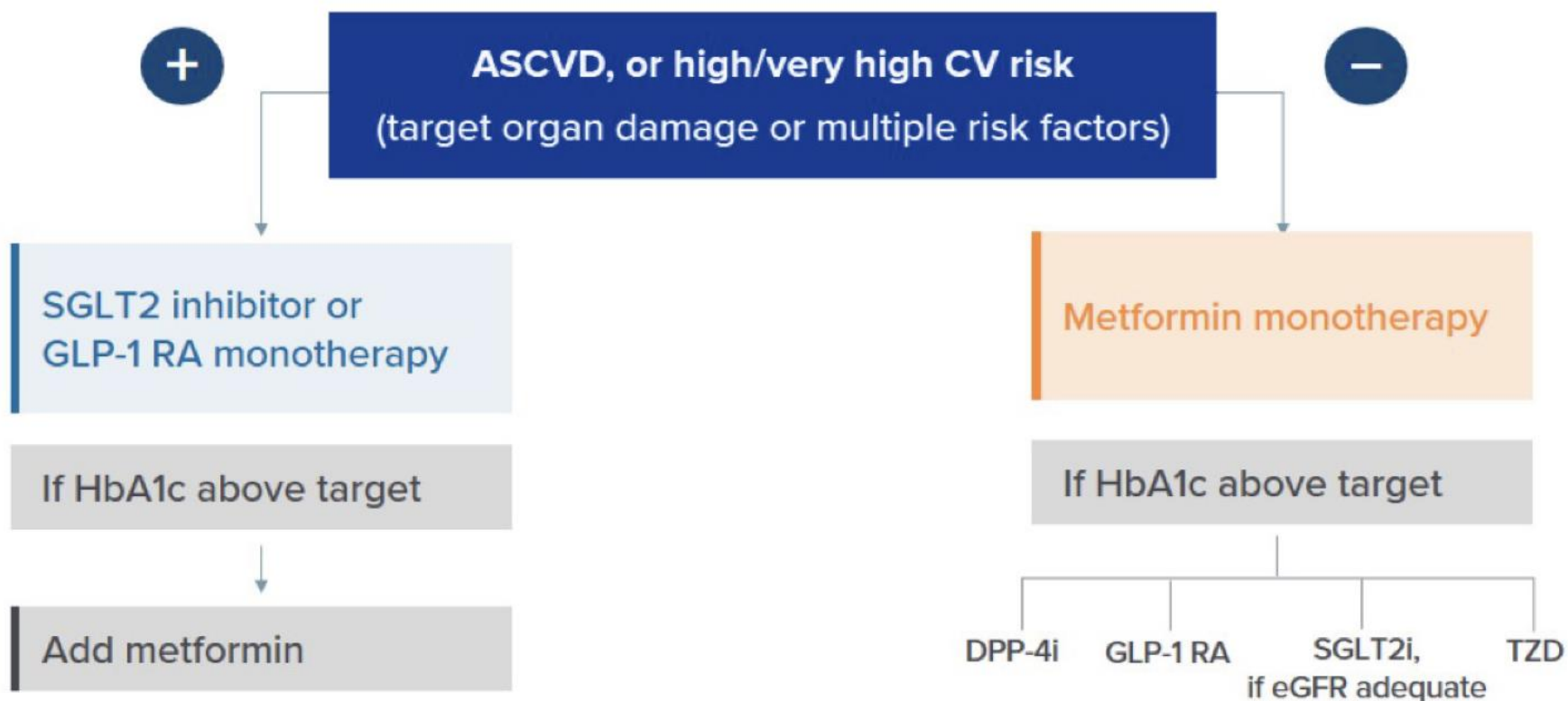
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CV Risk Reduction in Patients With T2D



Treatment algorithm for drug-naïve patients with T2D and ASCVD or high/very high CV risk



Case Study



Age: 62 years
T2D: 8 years
HbA1c: 8.6%

Medications	Metformin, 1000 mg twice daily Glyburide, 10 mg twice daily
Blood Pressure	128/76 mmHg
BMI	35 kg/m ²
(Cr) eGFR	(1.3) 65 mL/min/1.73 m ²
UACR	28 mg/g

6 weeks post STEMI

- Discharged on Glargine 20 u Hs
- Increase in hypoglycemic episodes (PM and overnight)
- Maybe TIA 2 years ago
- LVEF: 45%
- LDL-C: 110 mg/dl
- Normal physical exam
- ASA 81 mg, Ramipril 10 mg, Pravastatin 40 mg daily, Ticagrelor 30 mg BID, Metoprolol SR 25 mg daily



Question

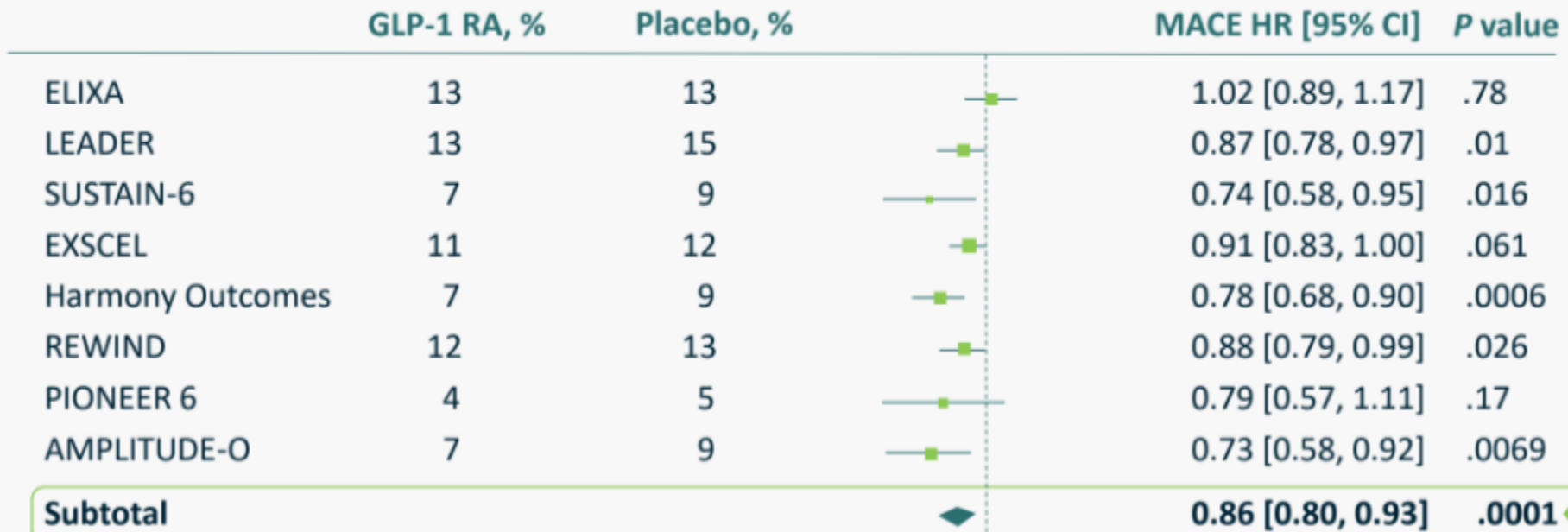
Taking into consideration the patient's full clinical picture, would you recommend any of the following changes to reduce the patient's cardiovascular risk?

1. Increase the basal insulin
2. Remain on current treatment regimen
3. Add a GLP1-RA
4. Add an SGLT2 inhibitor
5. Switch to high-intensity statin therapy



2021 Meta-Analysis of GLP-1 RAs MACE Outcomes

8 Trials Included, Total of ~60,000 Patients



NNT (95% CI) = 65 (45-130)

← 1 →
Favors GLP-1 RA Favors placebo

NNT, number needed to treat

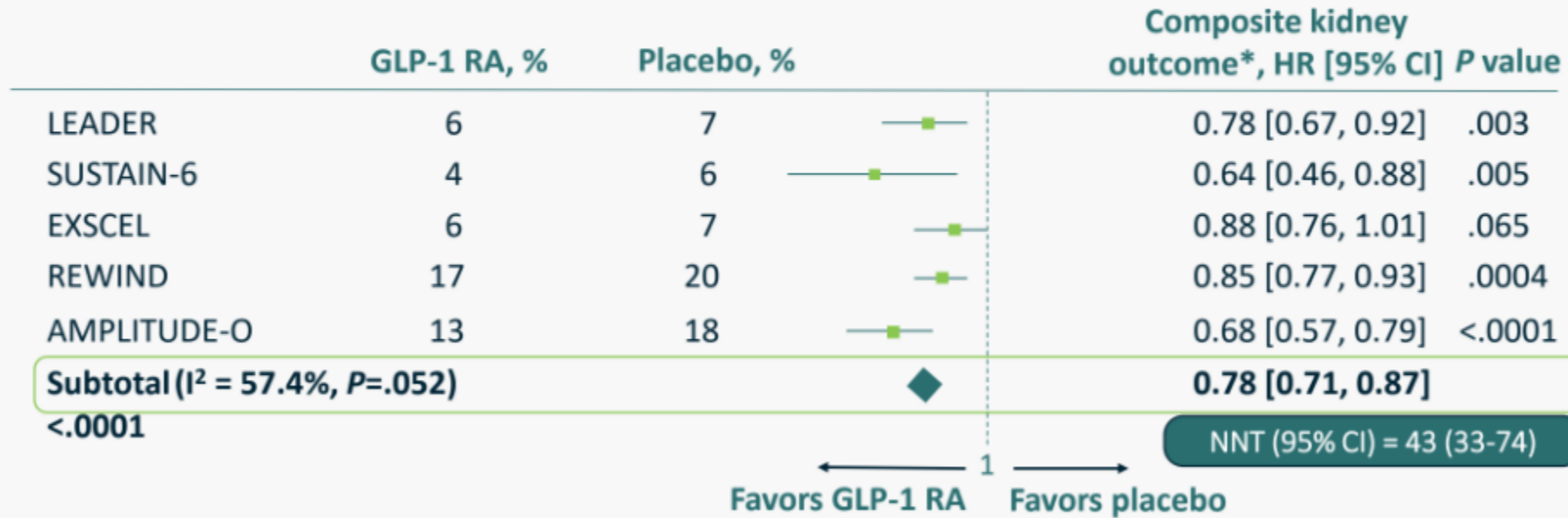
Sattar et al. *Lancet Diabetes Endocrinol.* 2021;9(10):653-662.



2021 Meta-Analysis of GLP-1 RAs

Composite Kidney Outcome (inc. ↓ Albuminuria)

8 Trials Included, Total of ~60,000 Patients



NNT, number needed to treat

*Composite kidney outcome: development of macroalbuminuria, doubling of serum creatinine or ≥40% decline in eGFR, kidney replacement therapy, or death due to kidney disease

Sattar et al. *Lancet Diabetes Endocrinol.* 2021;9(10):653-662.



Case Study



Age: 52 years
T2D: 5 years
HbA1c: 8.3%

Medications

Metformin, 1000 mg twice daily
Amaryl 2 mg daily, Lisinopril 20 mg daily, Atorvastatin 20 mg daily

Blood Pressure

132/78 mmHg

BMI

36 kg/m²

eGFR

91 mL/min/1.73 m²

UACR

26 mg/g

Routine follow-up visit:

- Admits to eating large portions at each meal and exercises 30 minutes 2-3 times a week
- FHx of DM and Obesity
- Lipids are at target
- Glucose control 170-250 mg/dl
- Normal physical exam
- The weight is the patient's primary concern today



2023
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at the
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Case Study



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T2D: 5 years
HbA1c: 8.3%

Medications

Metformin, 1000 mg twice daily
Amaryl 2 mg daily, Lisinopril 20 mg
daily, Atorvastatin 20 mg daily

Blood Pressure

132/78 mmHg

BMI

36 kg/m²

eGFR

91 mL/min/1.73 m²

UACR

26 mg/g

What would you recommend for this patient?

- A. Continue treatment and increase exercise to 150 min/week
- B. Stop the Amaryl and add a DDP IV inh
- C. Start SGLT2 inh
- D. Start GLP1 RA
- E. Start GIP/GLP1 RA



2023
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at the
Shore

Introduction

GLP-1 Receptor Agonist Class

- First agent approved by US FDA in 2005^[a]
- Since then, 7 agents approved

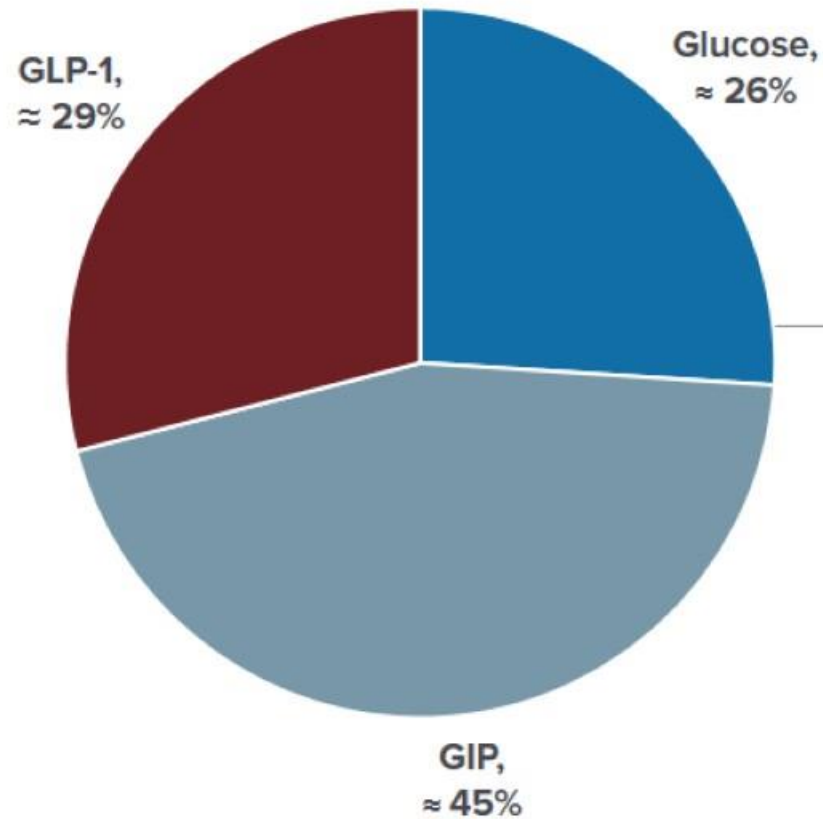
Proven Glycemic Efficacy

- GLP-1 RAs are most efficacious at lowering HbA1c^[b]
- Low risk of hypoglycemia when used as monotherapy^[a,b]

Unmet Needs

- People on GLP-1 RAs still fail to achieve glycemic control^[b]
- PPG control continues to be a challenge^[c]

Exploring New Treatment Strategies for T2D



GLP-1 is one of many incretin hormones

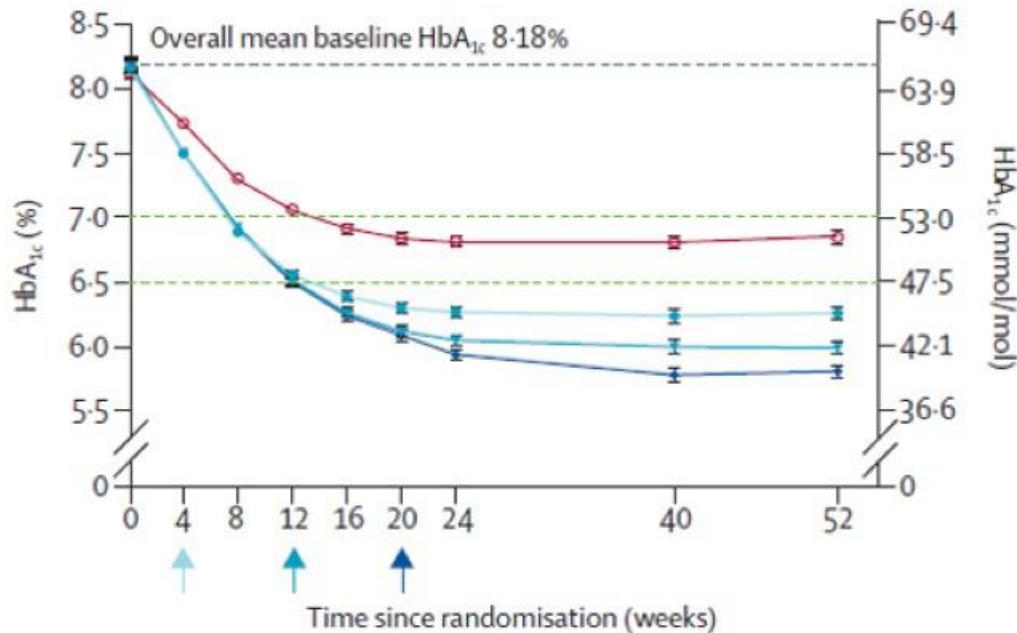
GIP plays a significant role in postprandial glucose control

Can we harness GIP's effects?

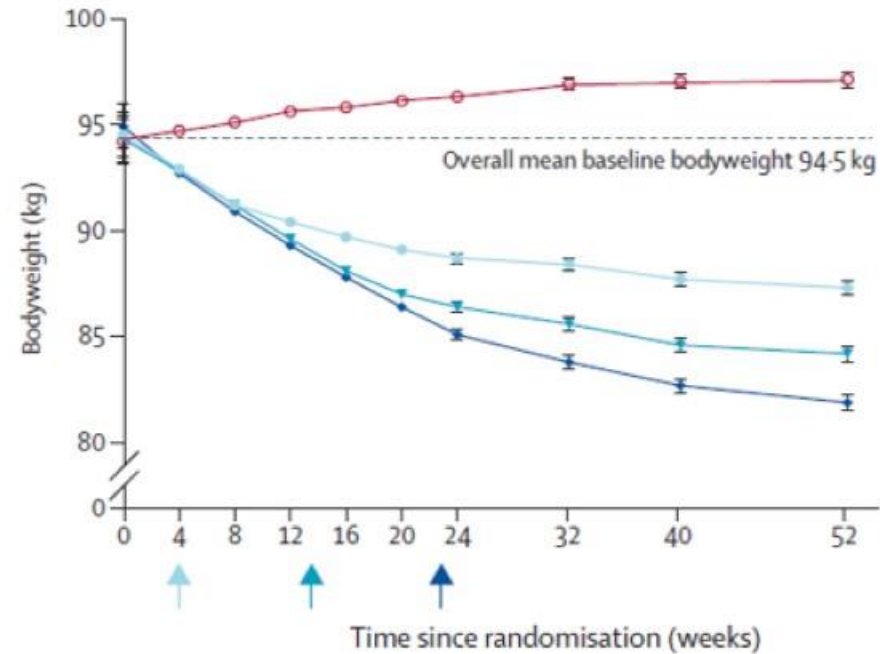
SURPASS-3 (Once-Weekly Tirzepatide vs Once-Daily Degludec)

Tirzepatide 5 mg Tirzepatide 10 mg Tirzepatide 15 mg Insulin degludec

HbA_{1c} Over Time and Change From Baseline at Week 52



Body Weight Over Time From Baseline at Week 52



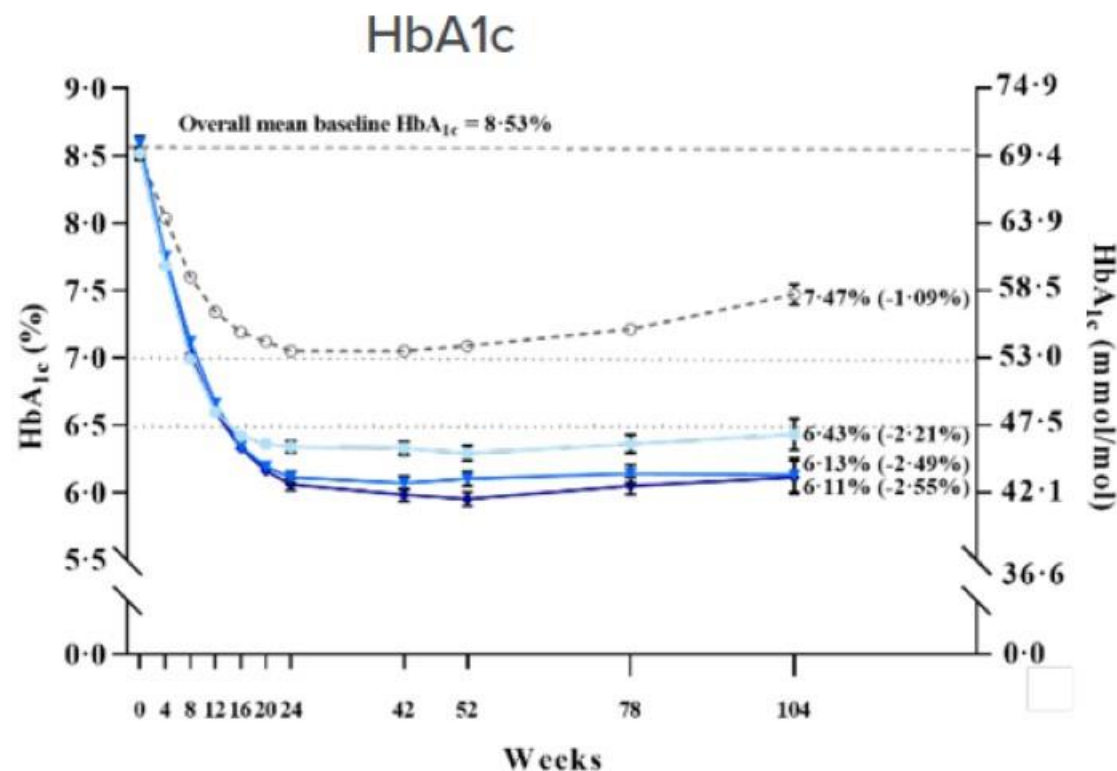
Study Limitations

- Open-label design
- Self-report of GI adverse events
- Exclusion of patients with asymptomatic gastroparesis
- Low proportion of Black and African American participants

SURPASS-4

HbA1c and Body Weight Change Over Time

—●— Tirzepatide 5 mg —◆— Tirzepatide 15 mg
—▼— Tirzepatide 10 mg -○- Insulin Glargine



All TZP (n) 981

863

577

105

Glargine (n) 978

887

589

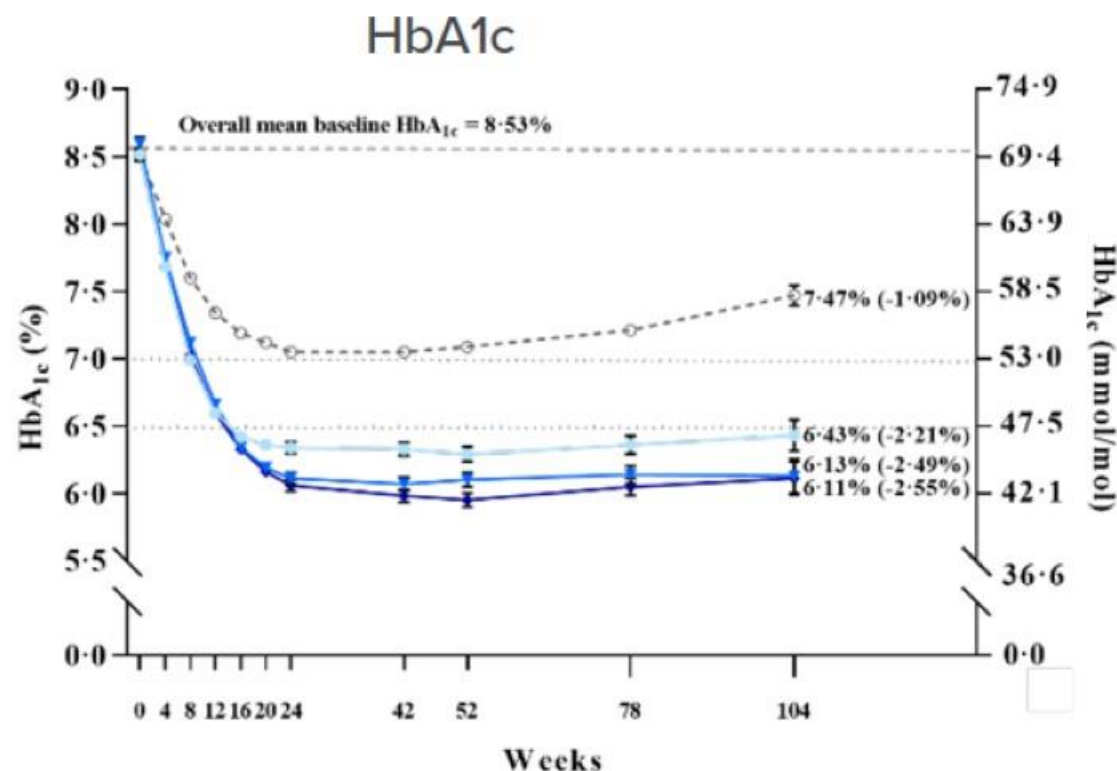
94

MITT population (efficacy analysis set). Data are LSM (SE) over time, MMRM analysis up to 104 weeks. Arrows indicate time of primary endpoint. Dashed lines show baseline values and dotted lines show target values.

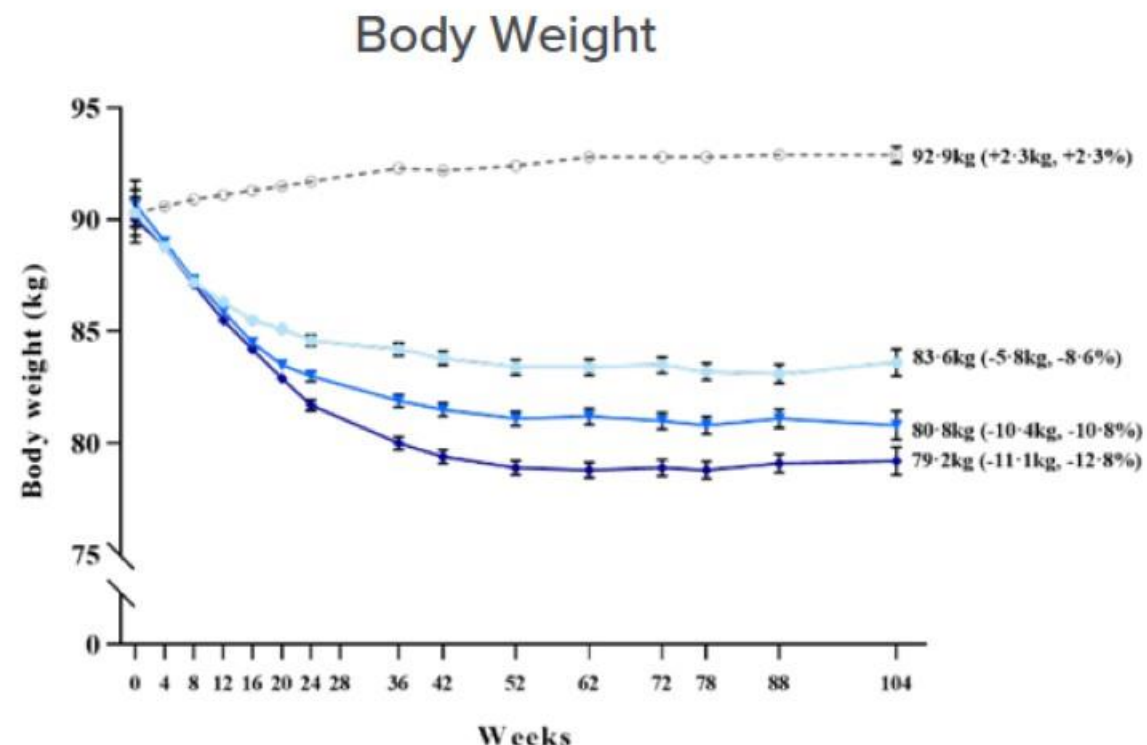
SURPASS-4

HbA1c and Body Weight Change Over Time

- Tirzepatide 5 mg
- ◆ Tirzepatide 15 mg
- ▼ Tirzepatide 10 mg
- Insulin Glargine



	Weeks	Weeks	Weeks	
All TZP (n)	981	863	577	105
Glargine (n)	978	887	589	94



	Weeks	Weeks	Weeks	
All TZP (n)	981	864	583	105
Glargine (n)	978	891	600	97

MITT population (efficacy analysis set). Data are LSM (SE) over time, MMRM analysis up to 104 weeks. Arrows indicate time of primary endpoint. Dashed lines show baseline values and dotted lines show target values.

Case Study

Presented to the hospital ER with chest pressure waxing and waning for 2h.

+ diaphoresis, nausea and SOB

- HTN & Obesity
- Smoked 1PPD x 30 yrs
- He underwent cath-> stent to 90% stenosis in LAD; Also had 40%LCx and 30% RCA stenoses
- LVEF: 35-40%
- LDL-C: 110 mg/dl
- Normal physical exam today
- D/C on ASA, Ramipril 10 mg, Rosuvastatin 40 mg daily, Ticagrelor, Metoprolol SR 50 mg daily, Amlodipine 100 mg



Age: 59 years
T2D: 11 years
HbA1c: 7.6%

Medications	Metformin, 1000 mg twice daily, Atorvastatin 20 mg daily, Amlodipine 10 mg daily
Blood Pressure	128/76 mmHg
BMI	33 kg/m ²
(Cr) eGFR	(1.2) 68 mL/min/1.73 m ²
UACR	32 mg/g



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What do you want to do next?

- Leave him alone
- Add DDP-4 inhibitor
- Add Basal insulin
- Add Pioglitazone
- Add SGLT-2 inhibitor



Reduction in Mortality, Hospitalization, and Urgent Visits With SGLT2i

- A meta-analysis of >20,000 patients from 15 RCTs noted a:¹
 - 31% reduction in hospitalization for heart failure
 - 61% reduction in urgent visits for heart failure
 - 14% reduction in all-cause mortality
 - 14% reduction in cardiovascular mortality

Trial Name	SGLT2i
CANVAS	Canagliflozin
CREDENCE	Canagliflozin
DAPA-HF ²	Dapagliflozin
DECLARE-TIMI	Dapagliflozin
EMPA-REG OUTCOME	Empagliflozin
EMPEROR-REDUCED ³	Empagliflozin
SOLOIST-WHF ⁴	Sotagliflozin
VERTIS-CV	Ertugliflozin



Considerations for Selecting GLP-1 RAs vs SGLT2 inhibitors

GLP-1 RA^[a-d]

- ASCVD predominates
- Prevention of MACE is critical
- eGFR < 30 mL/min/1.73 m²
- Greater HbA1c reduction needed
- Weight loss is a priority
- Individual patient traits and preferences

SGLT2 Inhibitor^[a-c]

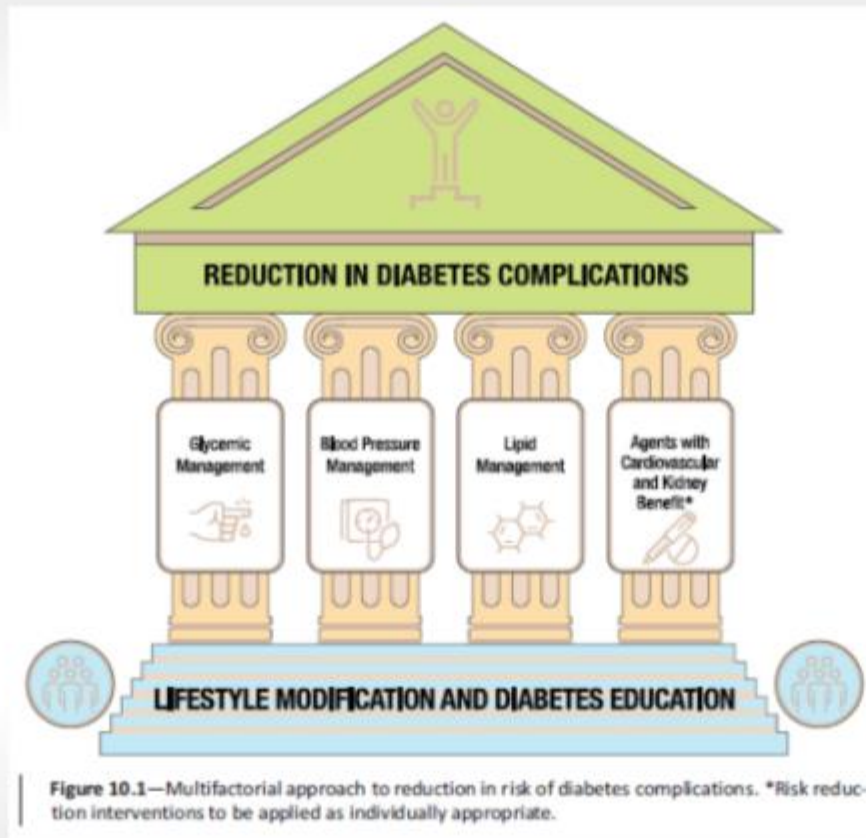
- HF or CKD predominates
- Gallbladder disease or history of pancreatitis
- Family or personal history of medullary thyroid cancer or MEN2
- Individual patient traits and preferences

GLP-1 RAs and SGLT2 inhibitors can be used in combination in many patients^[a]

MACE, major adverse cardiovascular events; MEN2, multiple endocrine neoplasia 2.

a. Buse JB et al. Diabetes Care. 2020;43:487-493. b. American Diabetes Association. Diabetes Care. 2019;42(suppl 1):s1-s193. c. US Food and Drug Administration. <https://www.accessdata.fda.gov/scripts/cder/daf/>. Accessed November 2, 2021. d. Thong KY et al. Prim Care Diabetes. 2018;12:45-50.

CARDIOVASCULAR DISEASE AND RISK MANAGEMENT



Cardiovascular Disease and Risk Management:
Standards of Medical Care in Diabetes – 2023 Diabetes Care 2023;46(Suppl. 1):S140–S157



Take home message

We need to shift from just thinking about the glucose and ask why not a GLP 1RA or SGLT 2 inh and assess CV risk (e.g. for ASCVD, ASCVD risk, CKD and/or HF)



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Multidisciplinary Care for Effective T2D Management

