

A Cardiologist-PCP Collaboration Discussing GLP-1 Receptor Agonists for

Reducing Cardiovascular Risk in Patients with Diabetes

Co-Chairs Michael J. Blaha, MD, MPH (CARDIOLOGIST)

Professor of Medicine and Epidemiology Director of Clinical Research, Ciccarone Center for the Prevention of Cardiovascular Disease Johns Hopkins University School of Medicine Baltimore, MD

Jay Shubrook, DO, FACOFP, FAAFP (PRIMARY CARE)

Professor and Diabetologist Director for Clinical Research Director of Diabetes Service Touro University California Vallejo, CA





## Clinical Conversations Exchange:

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## **Learning Objectives**

- Determine the clinical implications of results from Cardiovascular Outcomes Trials of GLP-1 receptor agonists
- Identify patients with type 2 diabetes who are most likely to benefit from the use of GLP-1 receptor agonists
- Personalize the selection of GLP-1 receptor agonists based on indications, guidelines recommendations and clinical data
- Develop strategies for increasing collaboration between cardiologists and PCPs in managing cardiovascular risk in patients with T2DM

## **Target Audience**

This educational activity is intended for cardiologists and primary care providers who manage and treat patients with type 2 diabetes.

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 $\textit{Credit}^{\mathsf{TM}}.$  Physicians should claim only the credit commensurate with the extent of their participation in

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**Nursing Credit Information** 

Purpose: This program would be beneficial for nurses involved in the care of patients with type 2

diabetes mellitus.

Credits: 1.0 ANCC Contact Hour(s)

**Accreditation Statement** 

Ultimate Medical Academy/CCM is accredited as a provider of continuing nursing education by the

American Nurses Credentialing Center's Commission on Accreditation. Awarded 1.0 contact hour(s) of

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- **Dr. Shubrook** is a consultant for Bayer and Novo Nordisk.

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Lauren Welch, MA, VP, Outcomes and Accreditation for Med Learning Group has nothing to disclose.

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- 2. Participate in the web-based live activity.
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Clinical Conversations Exchange: A Cardiologist-PCP Collaboration Discussing GLP-1 Receptor Agonists for Reducing Cardiovascular Risk in Patients with Diabetes



## **AGENDA**

- I.CV comorbidities in T2DM
  - a. Epidemiology
  - b. Traditional risk factors
  - c. Pathophysiology
- II. GLP-1 Receptor Agonists
  - a. Mechanism of action
    - i. The incretin pathway
    - ii. Anti-hyperglycemic mechanisms
    - iii. Mechanisms of CV benefit
  - b. Clinical trial results
    - i. Results from CVOT
      - 1. Primary prevention
      - 2. Secondary prevention
    - ii. Anti-hyperglycemic results
    - iii. Weight loss results
  - c. Guidelines and algorithms
    - i. ADA
    - ii. ACC
  - d. Practical strategies for use of preferred agents based on CVOT trials (dulaglutide, liraglutide, and injectable semaglutide) utilizing cast studies including:
    - i. Patient selection
    - ii. Indications
    - iii. Dosing
    - iv. Adverse effects
    - v. Adjusting other medications
    - vi. Follow-up care
  - e. New incretin-based therapies in development
- III. Cardiologist/PCP collaboration strategies
- IV. Case studies
- V. Conclusions/Question-and answer session





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## **Disclosures**

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- Dr. Shubrook is a consultant for Astra Zeneca, Bayer and Novo Nordisk.
- During the course of this activity, faculty may mention the use of medications for both FDA-approved and non-approved indications.

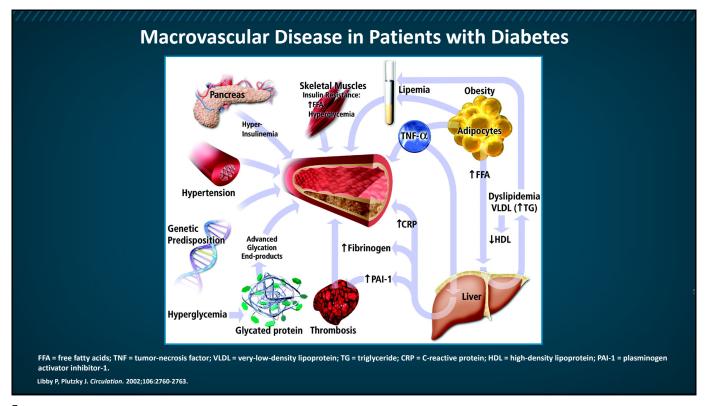
This activity is supported by an educational grant from Lilly.

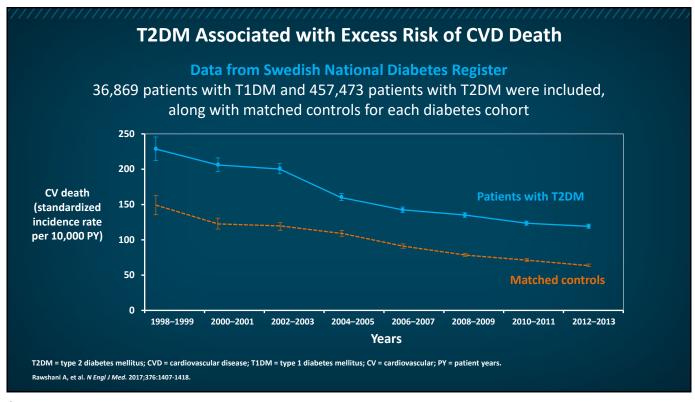
# CV Comorbidities in Patients with T2DM

## **Audience Poll**

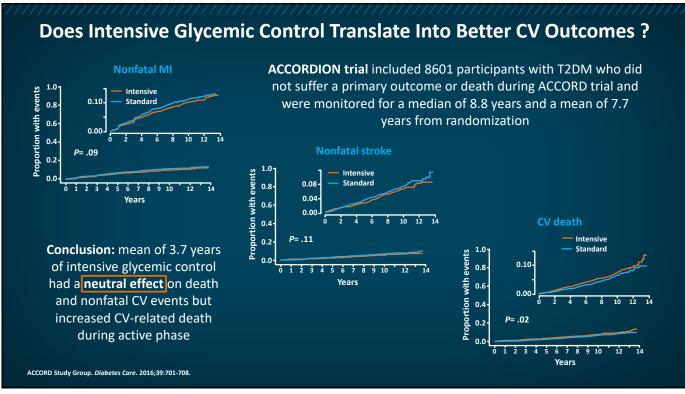
What do you see as the primary purpose of GLP-1 receptor agonists?

- 1. Glucose control
- 2. Cardiovascular risk protection
- 3. Other



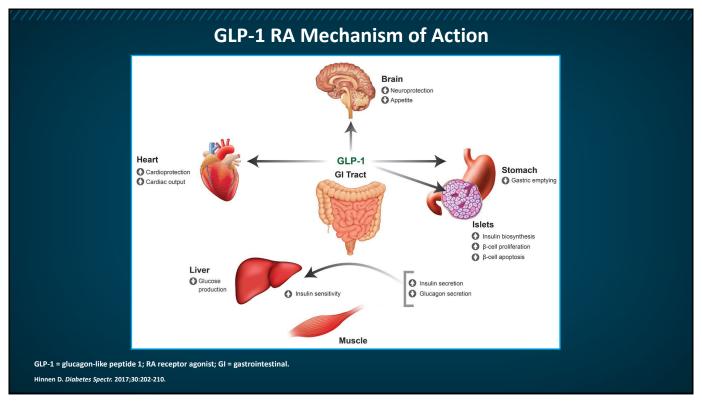


	Acute M			
İ	During a first myocardial infarction in young adults (18–59 years) in the US			
25%	Diabetes mellitus	>1 in 4	34%	
6%	Drug Abuse	>1 in 20	5%	
57%	Hypertension	>1 in 2	61%	
58%	Dyslipidemia	>1 in 2	52%	
16%	Obesity	>1 in 6	23%	
54%	Smoking >1 in 2		50%	
92%	Any of the modifiable risk factors >9 in 10		50%	

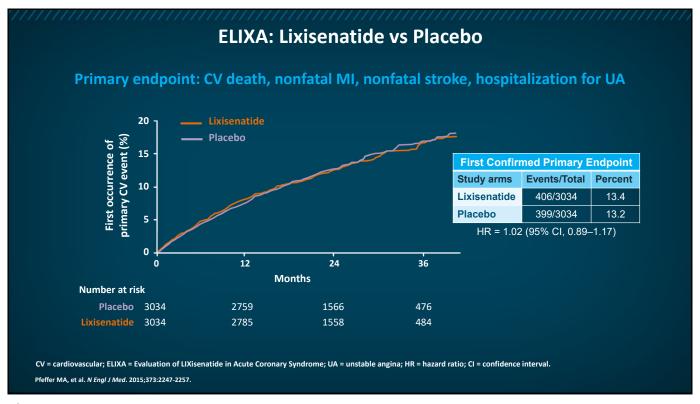


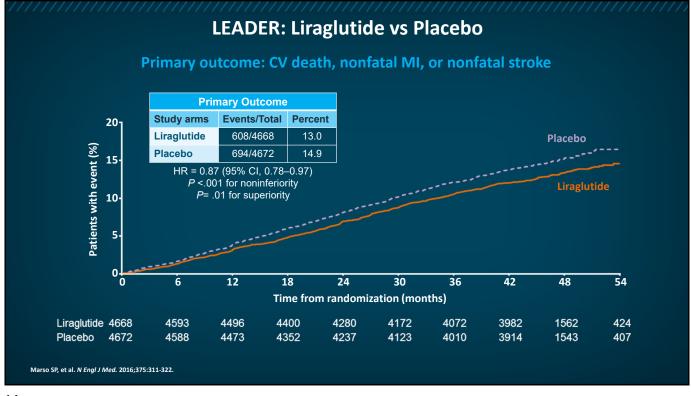
## GLP-1 Receptor Agonists

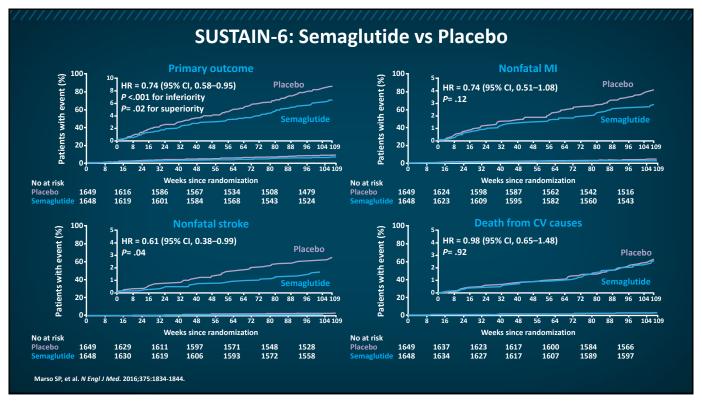
## **US Regulatory History FDA NEWS RELEASE** Media Inquiries: FOR IMMEDIATE RELEASE Karen Riley, 301-796-4674 Consumer Inquiries: December 17, 2008 888-INFO-FDA FDA Announces New Recommendations for Evaluating Cardiovascular Risk in Drugs Intended to **Treat Type 2 Diabetes** The U.S. Food and Drug Administration recommended today that manufacturers developing new drugs and biologics for type 2 diabetes provide evidence that the therapy will not increase the risk of such cardiovascular events as a heart attack. The recommendation is part of a new guidance for industry that applies to all diabetes drugs currently under development. "We need to better understand the safety of new antidiabetic drugs. Therefore, companies should conduct a more thorough examination of their drugs' cardiovascular risks during the product's development stage," said Mary Parks, M.D., director, Division of Metabolism and Endocrinology Products, Center for Drug Evaluation and Research (CDER), FDA. "FDA's guidance outlines the agency's recommendations for doing such an assessment." "Sponsors should demonstrate that therapy will not result in an unacceptable increase in cardiovascular risk" FDA 2008 guideline: requires ~15,000 patients-years of exposure, exclusion of a 30% hazard for MACE events in a risk population US = United States: FDA = US Food and Drug Administration; MACE = major adverse cardiovascular events.

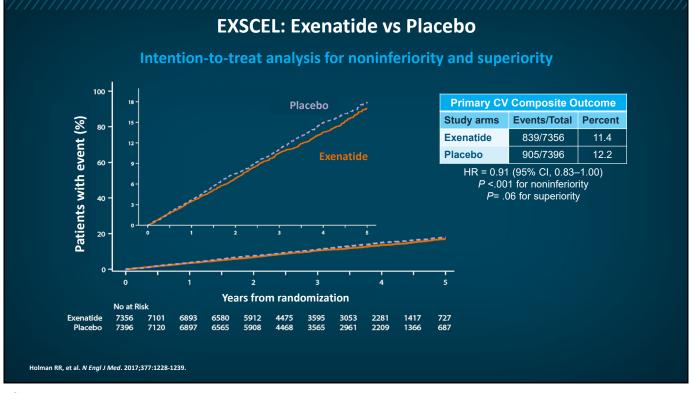


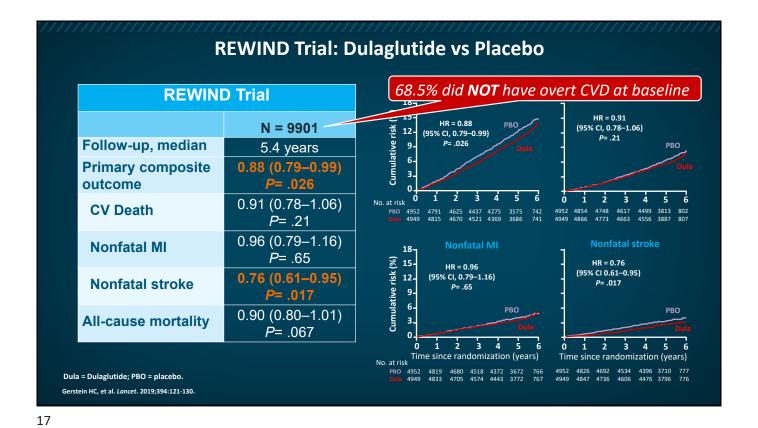
## **GLP1-RA Cardiovascular Outcome Trials** HARMONY LEADER SUSTAIN-6 EXSCEL **ELIXA** REWIND PIONEER-6 Albiglutide QW (n = 9463) Lixisenatide Liraglutide Semaglutide **Exenatide QW Dulaglutide QW** Semaglutide PO (n = 6068)(n = 14,752)Median follow-up, years 3.8 54 60 64 62 64 66 66 Mean age, years Female, % 32 30 36 39 38 31 46 Mean BMI, kg/m<sup>2</sup> 30.2 NR NR NR 32.3 32.3 32.3 HbA1c, % 7.7 8.7 8.7 8.1 8.8 7.3 8.2 BL metformin, % 76 73 76 74 57 Baseline eGFR 76 75 75 76 79 75 74 eGFRt <60, % 28.5 23 23 18 23 22 27 Prior CVD, % 100 83 100 32 85 Prior HF. % 18 24 16 20 NR 0.91 (0.83–1.00) 3P-MACE 0.74 (0.58-0.95) 0.78 (0.68-0.90) 1.02 (0.89–1.17) 0.87 (0.78-0.97) 0.79 (0.57-1.11) 0.88 (0.79-0.99) CV death 0.98 (0.78–1.22) **0.78 (0.66–0.93)** 0.98 (0.65–1.48) 0.88 (0.76–1.02) 0.93 (0.73-1.19) 0.91 (0.78-1.06) 0.49 (0.27-0.92) МІ 1.03 (0.87–1.22) 0.86 (0.73–1.00) 0.74 (0.51–1.08) 0.97 (0.85–1.10) 0.75 (0.61-0.90) 0.96 (0.79–1.16) 1.18 (0.73–1.90) Stroke 1.12 (0.79–1.58) 0.86 (0.71–1.06) 0.61 (0.38-0.99) 0.85 (0.70-1.03) 0.86 (0.66-1.14) 0.76 (0.61-0.95) 0.74 (0.35-1.57) All-cause mortality 0.94 (0.78-1.13) 0.85 (0.74-0.97) 1.05 (0.74–1.50) 0.86 (0.77-0.97) 0.95 (0.79-1.16) 0.90 (0.80-1.01) 0.51 (0.31-0.84) 0.87 (0.73-1.05) 1.11 (0.77–1.61) 0.86 (0.48-1.55) 0.96 (0.75-1.23) 0.94 (0.78-1.13) NR 0.93 (0.77-1.12) Renal events 0.81 (0.66-0.99) 0.78 (0.67-0.92) 0.64 (0.46-0.88) 0.85 (0.73-0.98) NR 0.85 (0.77-0.93) NR Weight loss 0.7 (0.9–0.5) 2.3 (2.5–2.0) 2.9 (2.3–3.5)/ 4.3 (3.8–4.9) 1.3 (1.1–1.4) 0.83 (0.6–1.1) 1.5 (1.3–1.7) 3.6 at 16 months QW = every week; PO = oral/by mouth; BMI = body mass index; HbA1c = glycosylated hemoglobin; BL = baseline; eGFR = estimated glomerular filtration rate; HF = heart failure; MI = myocardial infarction; HHF = hospitalization for HF; NR = not reported. Wilcox T, et al. J Am Coll Cardiol. 2020;75:1956-1974.











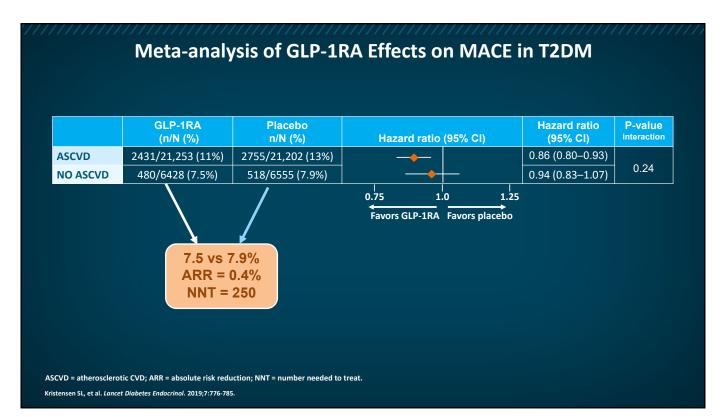
**PIONEER 6: Oral Semaglutide vs Placebo** First occurrence of MACE (CV death nonfatal MI, or nonfatal stroke) Placebo Patients with event (%) **Primary Outcome—MACE** Events/ Rate (100 PY) 3 Study arms Percent Total Semaglutide PO 61/1591 2.9 3.8 2 Oral semaglutide 76/1592 HR = 0.79 (95% CI, 0.57-1.11) P < .001 for noninferiority; P= .17 for superiority 83 Time from randomization (weeks) No. at risk Oral Sema 1591 1583 1575 1564 1557 1547 1512 1062 1577 1565 1551 1538 1528 1489 1032 Sema = semaglutide; PY = person years. Husain M, et al. N Engl J Med. 2019;381:841-851.

Со	mparing GL	P-1RAs

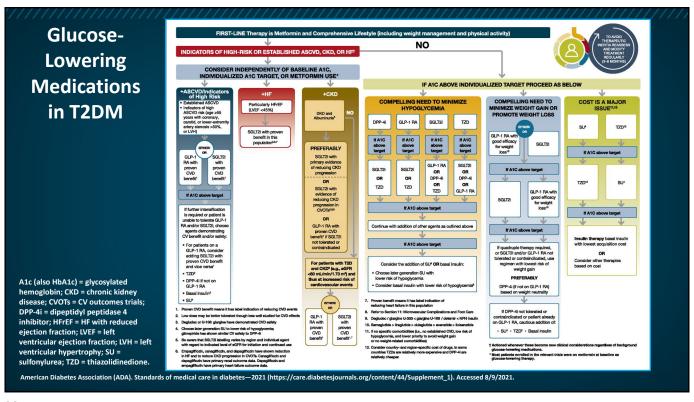
GLP-1RA	Dose range	Weight Change	HbA1c change	Renally excreted?	ASCVD benefit?
Lixisenatide	10-20 mcg	–0.7 kg	-0.55%	yes	no
Exenatide BID	5–10 mcg	1.67 kg	-0.70%	yes	no
Exenatide weekly	2 mg	–1.27 kg	<b>–1.08%</b>	yes	no
Liraglutide	0.6–1.8	–2.3 kg	<b>–1.15%</b>	no	yes
Dulaglutide	0.75–1.5	–1.46 kg	-1.21%	no	yes
Semaglutide weekly	0.25–1.0	–4.3 kg	<b>–1.90%</b>	no	yes
Semaglutide oral, daily	3–14	–3.4 kg	-0.70%	no	no

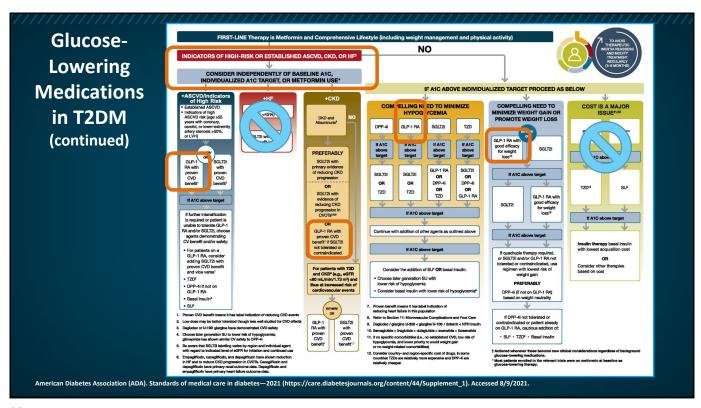
BID = twice daily.

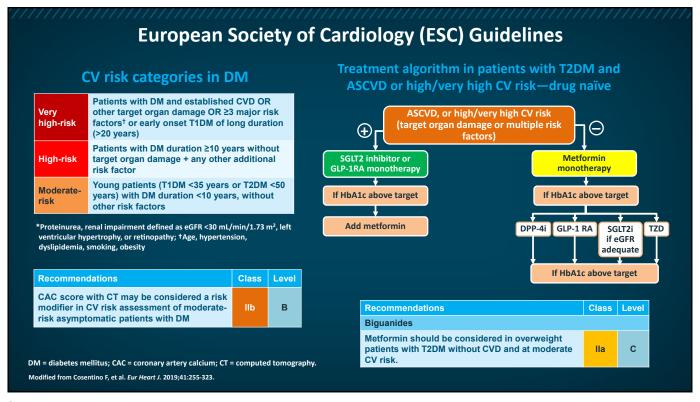
Htike ZZ, et al. Diabetes Obes Metab. 2017;19:524-536. Pfeffer MA, et al. N Engl J Med. 2015;373:2247-2257. Chiquette E, et al. Vasc Health Risk Manag. 2012;8:621-629. Holman RR, et al. N Engl J Med. 2016;375:311-322. Gerstein HC, et al. Lancet. 2019;394:121-130. Marso SP, et al. N Engl J Med. 2016;375:1834-1844. Husain M, et al. N Engl J Med. 2019;381:841-851 and supplement. Davies M, et al. JAMA. 2017;318:1460-1470.

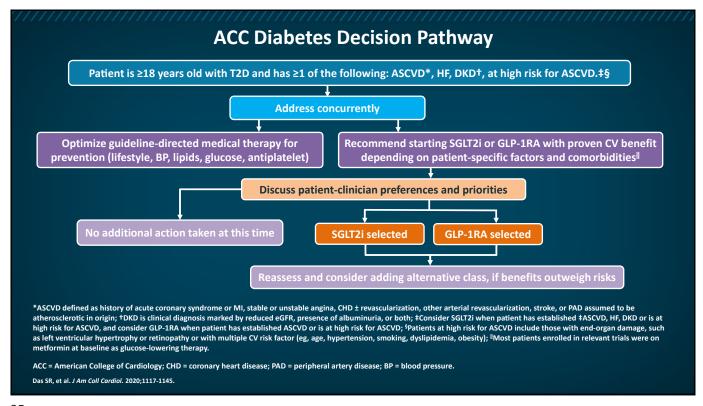












## **GLP-1 RAs: CV Indications\***

- **Liraglutide** (subcutaneous injection)<sup>1</sup>: to reduce the risk of major adverse CV events in adults with T2DM and established CVD
- **Semaglutide** (subcutaneous injection)<sup>2</sup>: to reduce the risk of adverse CV events in adults with T2DM and established CV disease
- **Dulaglutide** (subcutaneous injection)<sup>3</sup>: to reduce the risk of major adverse CV events in adults with T2DM who have established CVD or multiple CV risk factors
  - \*All listed agents are also indicated as an adjunct to diet and exercise to improve glycemic control in patients with T2DM

<sup>1.</sup> Liraglutide subcutaneous injection (Victoza\*) prescribing information (PI), 2020 (www.novo-pi.com/victoza.pdf). 2. Semaglutide subcutaneous injection (Ozempic\*) PI, 2021 www.novo-pi.com/ozempic.pdf). 3. Dulaglutide subcutaneous injection (Trulicity\*) PI, 2021 (http://pi.lilly.com/us/trulicity-uspi.pdf). All URLs accessed 8/9/2021.

## **Audience Poll**

In your estimation, what percentage of patients who could benefit from the cardiovascular effects of GLP-1 receptor agonists are receiving them?

- 1. 0%-25%
- 2. 25%-50%
- 3. 50%-75%
- 4. 75%-100%

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## **GLP-1 Receptor Agonists: Side Effects**

- Nausea
- Vomiting
- Diarrhea
- Dyspepsia
- Constipation
- Injection-site reactions

- Warnings
  - History of pancreatitis
  - Risk factors for pancreatitis
  - Gastroparesis
  - Personal or family history of:
    - Medullary thyroid cancer
    - MEN2

## Adjusting Other Antihyperglycemic Therapies at Initiation of GLP-1RAs

- Sulfonylureas
  - If HbA1c is ≤7.5% or hypoglycemic episodes, stop sulfonylurea medication
  - If HbA1c is 7.6-8.5%, decrease sulfonylurea medication by 50%
  - If HbA1c is >8.5%, continue sulfonylurea medication with possibility of future weaning
- Insulin
  - If HbA1c is at or below individualized target or hypoglycemic episodes, decrease basal insulin by 20–30%
  - Coordination with primary care physician and/or endocrinologist strongly encouraged
- Dipeptidyl peptidase-4 inhibitors
  - Discontinue after starting GLP-1RA
- Other agents do not require adjustment

Honigberg MC, et al. JAMA Cardiol. 2020;5:1182-1190.

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## **Management of Stable Coronary Artery Disease (CAD)** -Underlying issue: T2DM is a generalized prothrombotic state caused by both altered coagulation and altered platelet function Lowest risk of bleeding but high residual platelet reactivity increases CV risk Decreased CV risk without meaningfully increased risk of bleeding vs aspirin alone Decreased CV risk with increased risk of bleeding; targets patients with additional risk factor and low risk of bleeding (use risk scores) Decreased CV risk with increased risk of bleeding: targets patients with additional risk factor and low risk of bleeding (use risk scores) Aspirin alone Aspirin + clopidogrel/ticagrelor Aspirin + low-dose rivaroxaban Blood pressure—Underlying iss e: Coexisting hypertension increases risk of MI, stroke, and all-cause mortality <140/90 mm Hg in most patients; consider <130/80 mm Hg if additional risk factors for stroke or microvascular complications Target blood pressure First-line therapy because of decreased CV risk with CAD Good CV risk reduction but slight increase in glucose Good CV risk reduction and effective antianginal ACE inhibitor/ARB Long-acting thiazide diuretic Calcium channel blockers Particularly effective in patients with prior MI or LV dysfunction Do not reduce mortality in uncomplicated patients with stable CAD; choose vasodilating β-blocker for less adverse metabolic impact Aldosterone antagonists **β-blockers** Lipids—Underlying issue enic lipid anomalies include hypertriglyceridemia, low HDL-C, and small, dense LDL particles High-intensity statins Ezetimibe and PCSK9 inhibitors Cornerstone of lipid therapy and secondary prevention Additional CV risk reduction when LDL is >70 mg/dL despite maximally tolerated statins Niacin Recommended when triglycerides are very high (eg, >500 mg/dL) to reduce risk of pancreatitis Consider for further CV risk reduction when triglycerides remain elevated (>135 mg/dL) despite maximally tolerated sta Icosapent ethyl <7.0% if young and healthy (life expectancy >10–20 years); depends on preferences and capacity <8.0% or 8.5% for older patients with comorbidities or at high risk for hypoglycemia; depends on preferences, capacity, and types of treatment used Glycemic target Glucose-lowering medications CV enertit possible (low-quality evidence) CV benefit (largely consistent among individual drugs); reduction in MACEs and HF hospitalizations CV benefit: reduction in MACEs (some inconsistency among individual drugs) No associated weight gain or hypoglycemia Associated with weight loss, no hypoglycemia, lower blood pressure, and less progression of CKD Associated with weight loss and no hypoglycemia Metformin (usually first line) SGLT2 inhibitors **GLP-1** receptor agonists Likely CV benefit (but not heart failure) No hypoglycemia; associated with weight gain, edema, risk of HF, and Thiazolidinediones bone fractures **DPP4** inhibitors Neutral effect on CV outcomes No associated weight gain or hypoglycemia Associated with weight gain and hypoglycemia Insulin and sulfonvlureas Likely neutral effect on CV outcomes LV = left ventricular; HDL-C = high-density lipoprotein-cholesterol: LDL = low-density lipoprotein; LV = left ventricular; PCSK9 = proprotein convertase subtilisin/kexin type 9. Arnold SV, et al. Circulation. 2020;141:e779-e806.

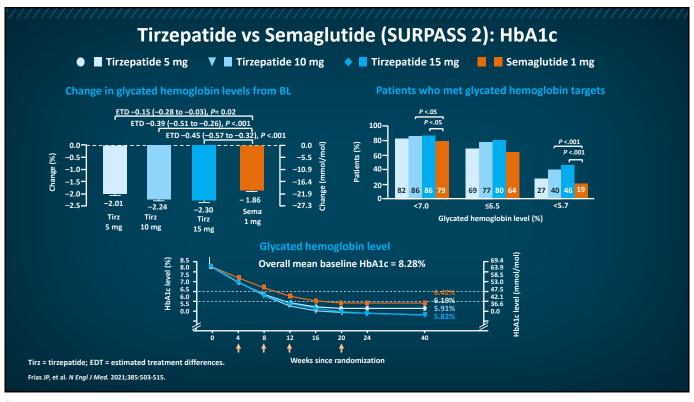


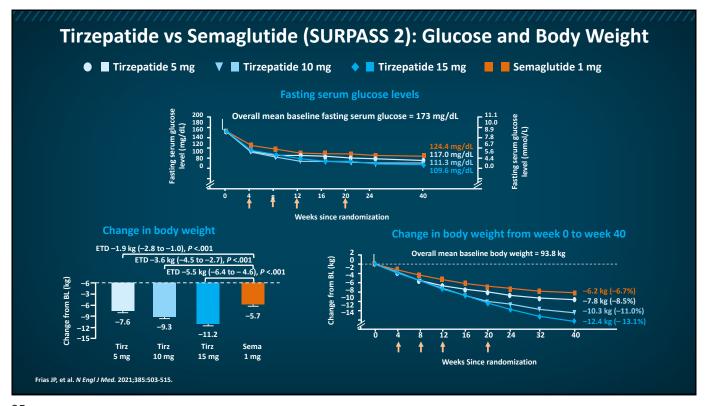
Organ	GLP-1 RA action	GIP action
Pancreas		
Beta cell	Increase insulin synthesis and secretion Increased glucose sensing Increased glucose sensing	
Alpha cell	Decrease glucagon secretion	Increase glucagon secretion
Brain	Increased satiety, decreased appetite	
GI system	Decreased GI motility and decreased gastric emptying	
Adipose tissue		Increase lipolysis and fatty acid synthesis

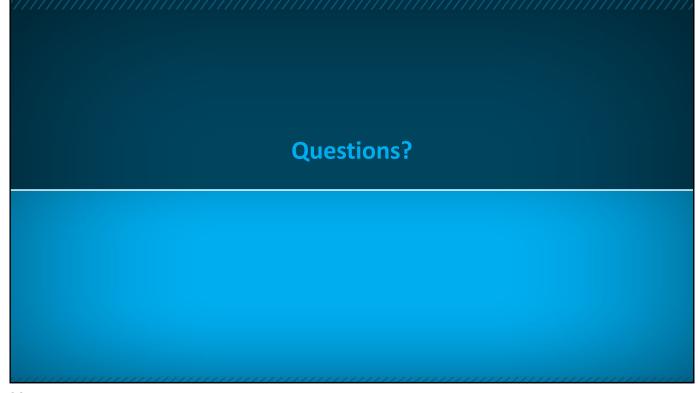
## Tirzepatide: a "Twincretin"

Tirzepatide (GLP-1/GIP RA) Lilly-SURPASS clinical trial program

- SURPASS 1—versus placebo
- SURPASS 2—versus semaglutide (both + metformin)
- SURPASS 3—versus degludec (both metformin ± SGLT2i)
- SURPASS 4—versus glargine (+ 1–3 oral meds)
- SURPASS 5—versus placebo (+ glargine ± metformin)
- SURPASS J—versus dulaglutide (oral naïve or oral monotherapy)
- SURPASS-AP-Combo—versus glargine (+ metformin ± SU)
- SURPASS CVOT—versus dulaglutide (+ established oral/injectable treatment)





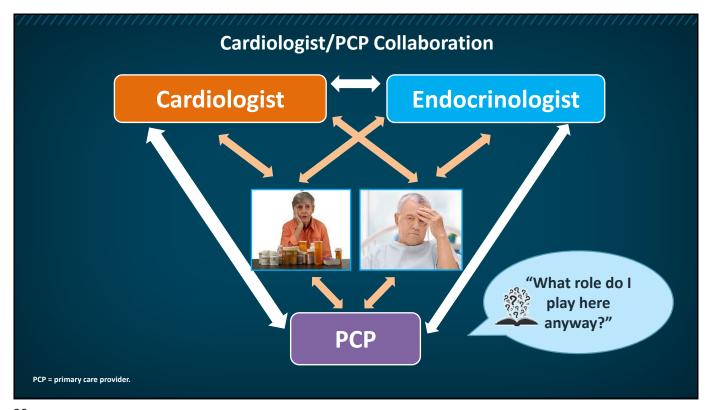


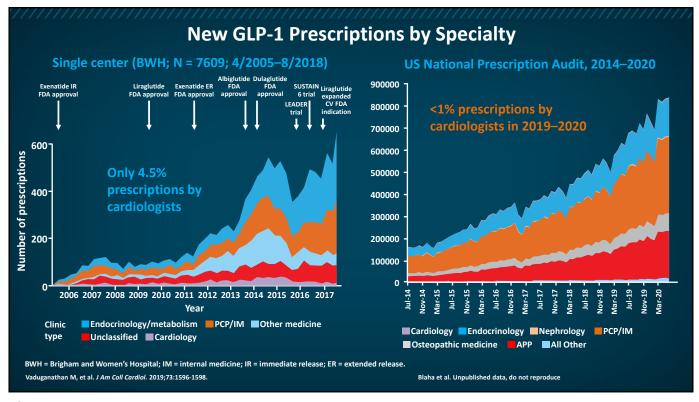
# Cardiologist/PCP Collaboration

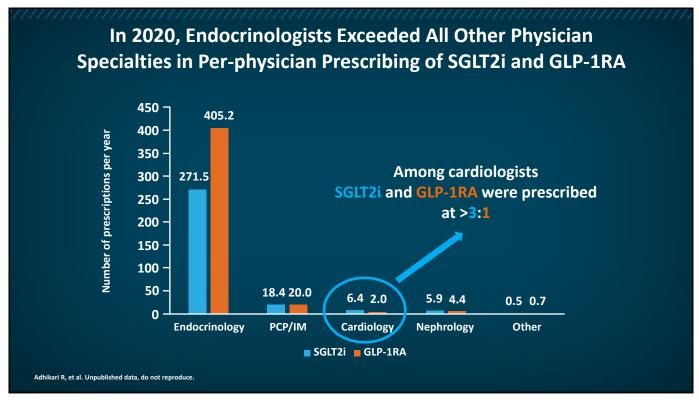
## **Audience Poll**

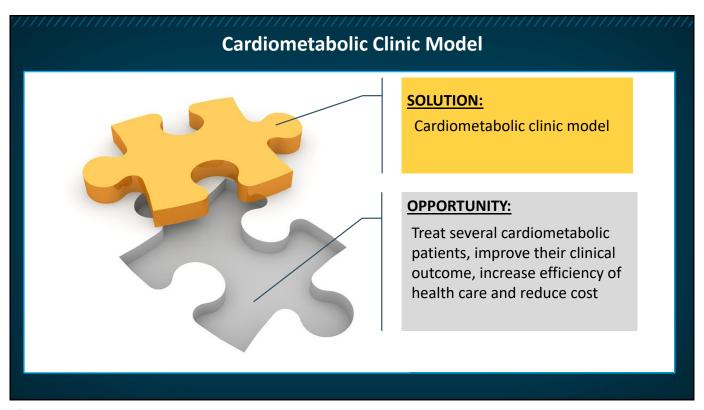
What specialty should take responsibility for prescribing GPL-1 receptor agonists and monitoring their effects?

- 1. Cardiology
- 2. Endocrinology
- 3. Primary care
- 4. Other
- 5. Any of the above







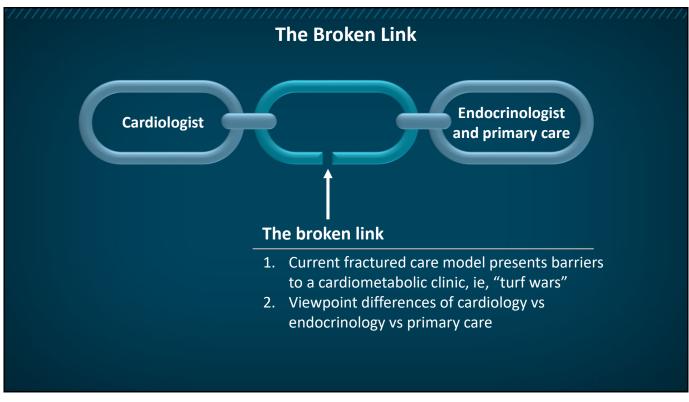


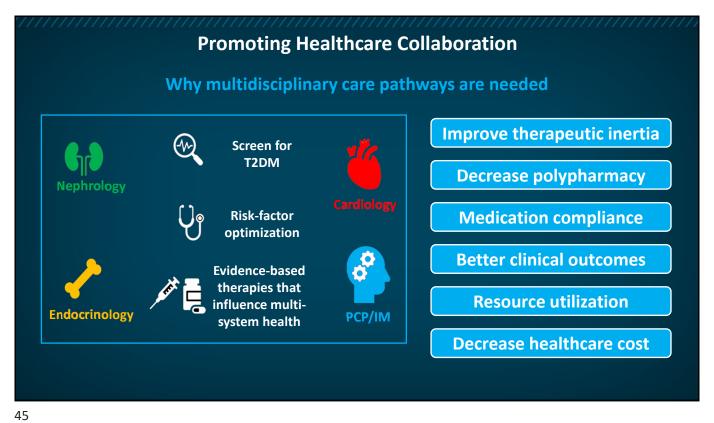


## **Cardiometabolic clinic model**

- Harmonious unification of cardiometabolic management under one specialist
- Emphasis on multiple interrelated conditions, increased patient convenience, reduced polypharmacy, decreased clinical inertia, and mitigation of miscommunications
- Decrease in referrals, increase in patient-centered outcomes, and reduced cost

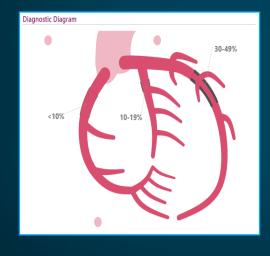
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**Case Studies** 

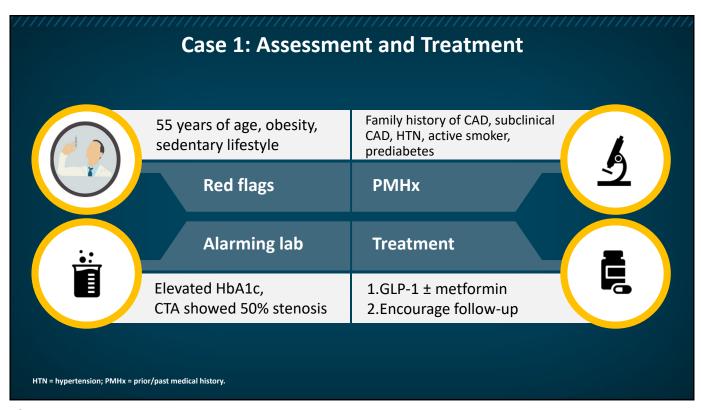
## Case 1: 55 Y/F, Active Smoking, Stage II Obesity, and Subclinical CAD. Previously Diagnosed with Prediabetes. Presents for Evaluation of Recent CTA Result.



- Family history of premature CAD (father CABG 50yrs), works as bank accountant (sedentary)
- Meds: Lisinopril 10mg, Atorvastatin 10mg
- Exam: BMI: 36, BP: 140/80mmHg, no signs of fluid overload
- Current Labs: HbA1c: 6.5%, Cr: 0.8 (eGFR >60)

## Questions to consider:

- What changes should we make to her current medical regimen?
  - What considerations would lead us to select GLP-1RA vs SGLT2i?



## Case 2: 60 Y/M STEMI (s/p DES x1 RCA 1 year ago), T2DM, CKD stage III, & HTN was Referred by PCP for CV Risk Optimization



- Exam: CVD exam normal, Lung clear, Weight: 15lbs weight gain (last 12 months)
- Labs: Cr: 2.3 (eGFR 29.5), AST: ALT:: 50:70, HbA1c: 7.0%, LDL: 60 mg/dL
- Meds: Metformin 1gm BID, Losartan 100mg, Atorvastatin 80mg, Aspirin 81mg and Clopidogrel 75mg

## **Questions to consider:**

- What changes should we make to his current medical regimen?
  - What considerations would lead us to select GLP-1RA vs SGLT2i?

