

L.A. Care Health Plan Provider Continuing Education (PCE) Prog

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- Questions will be managed through the Chat feature and will be answered at the end of the presentation. *Please keep your questions brief and send to All Panelists.* One of the Learning and Development Team members / Panelist and webinar co-host, will read the questions submitted via Chat when it's time for Q & A session (last 30 minutes of live webinar).
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A. Care Health Plan Provider Continuing Education (PCE) Pro

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• Partial credits are not allowed at L.A. Care's CME/CE activities for those who log in late (more than 15 minutes late) and/or log off early.

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• Friendly Reminder, a survey will pop up on your web browser after the webinar ends (please do not close your web browser and wait a few seconds) and please complete the survey. <u>Please</u> <u>note:</u> the online survey may appear in another window or tab after the webinar ends.

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 Any questions about L.A. Care Health Plan's Provider Continuing Education (PCE) Program and our CME/CE activities, please email Leilanie Mercurio at <u>Imercurio@lacare.org</u>

Presenter's Bio

Karol E. Watson, MD, PhD, FACC, is an attending Cardiologist and Professor of Medicine/Cardiology and the John C. Mazziotta Term Chair in Medicine at the David Geffen School of Medicine at UCLA.

Dr. Watson received her undergraduate degree from Stanford University, her Medical Degree from Harvard Medical School, magna cum laude, and her PhD in Physiology from UCLA. She completed a residency in Internal Medicine and a fellowship in Cardiology at UCLA, and continued there as part of the UCLA Specialty Training and Academic Research program and as Chief Fellow in Cardiovascular Diseases at UCLA.

Dr. Watson was honored to be named Cardiologist of the Year, by the California chapter of the American College of Cardiology (ACC) for 2017-18.

Dr. Watson is Director of the UCLA Barbra Streisand Women's Heart Health Program, Co- Director of the UCLA Program in Preventative Cardiology, and Director of the UCLA Cardiology Fellowship. She is a Principal Investigator for several large NIH studies and her research focuses on prevention of heart disease, vascular calcification, hypertension, hypercholesterolemia, and cardiovascular disparities.





The link between Diabetes and CVD – Reducing the risk

KAROL E. WATSON, MD, PHD, FACC

PROFESSOR OF MEDICINE/CARDIOLOGY

DAVID GEFFEN SCHOOL OF MEDICINE AT UCLA

CO-DIRECTOR, UCLA PROGRAM IN PREVENTIVE CARDIOLOGY

November 17, 2022, Live Webinar via WebEx, 12:00 pm – 1:30 pm PST, 1.50 CME/CE Credits Directly Provided CME/CE Activity by L.A. Care Health Plan

Disclosures

The following CME Planners do not have relevant financial relationships with ineligible companies. Leilanie Mercurio, L.A. Care PCE Program Manager, CME Planner. Alex Li, MD, L.A. Care Deputy Chief Medical Officer, CME Planner.

The following ineligible companies have relevant financial relationships with CME Presenter Dr. Karol Watson, Director of the UCLA Barbra Streisand Women's Heart Health Program, Co- Director of the UCLA Program in Preventative Cardiology, and Director of the UCLA Cardiology Fellowship.

Consultant: Amarin, Amgen, Boehringer-Ingelheim, Esperion, Eli Lilly. Grants: NHLBI, NIDDK, NIH BD2K.

All relevant financial relationships of Dr. Karol Watson, CME Presenter, with ineligible companies have been mitigated.

An ineligible company is any entity whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.

Commercial support was not received for this CME/CE activity.

Learning Objectives

- Identify the link between diabetes and cardiovascular disease (CVD).
- List two (2) therapies proven to prevent CVD in patients with diabetes.
- Specify two (2) new diabetes drugs that fit in with other therapies for cardiovascular risk reduction.
- Specify the role of SGLT2 inhibitors and GLP1-RAs in reducing CV events in diabetics.
- Discuss the role of diabetes therapies in heart failure management

Microvascular Complications

Diabetic Retinopathy Leading cause of

blindness in working-age adults¹

Diabetic Nephropathy Leading cause of end-stage renal disease²



Diabetic Neuropathy Leading cause of nontraumatic lower extremity amputations³



Macrovascular Complications

Stroke 2- to 4-fold increase in cardiovascular mortality and stroke^{4,5}

Heart Disease⁶



1. IDF. Fact Sheet Diabetes and Eye Disease. Available at: http://www.idf.org/node/1186?unode=C1CCADE9-4A03-4D17-A662-155B3ED59FDB. 2. The Renal Association. UK Renal Registry. Twelfth Annual Report. December 2009. Available at http://www.idf.org/node/1186?unode=C1CCADE9-4A03-4D17-A662-155B3ED59FDB. 2. The Renal Association. UK Renal Registry. Twelfth Annual Report. December 2009. Available at http://www.idf.org/node/1186?unode=C1CCADE9-4A03-4D17-A662-155B3ED59FDB. 2. The Renal Association. UK Renal Registry. Twelfth Annual Report. December 2009. Available at http://www.idf.org/fact-sheets/diabetes-cvd.

Adjusted Hazard Ratios for Total and Cardiovascular Mortality in T2DM

	< 55 years	1,066	2,289		2.35 (2.18-2.52)	
Total Mortality		4,762	13,498	H		2.18 (2.02–2.34)
	55 – 64 years	.,. 02	10,000	•	1.79 (1.73–1.85)	1 62 (1 56-1 67)
	65 – 74 vears	12,025	41,969		1 46 (1 43 1 49)	1.02 (1.50 1.07)
		44.050	190 409	*	1.40 (1.45–1.45)	1.27 (1.24–1.29)
	> 75 years	44,039	109,490	*	1.19 (1.17–1.20)	
-				•		1.02 (1.01–1.03)
ardiovascular Aortality	< 55 years	298	476	⊢	3.15 (2.73–3.64)	
	55 – 64 years	1,576	3,511	+ ◆ -		2.86 (2.47–3.31)
				♠	2.28 (2.15–2.42)	1.93 (1.82-2.05)
	65 – 74 vears	4,288	12,929		1.69 (1.63-1.75)	
	,	20.548	85 751		100 (100 100)	1.35 (1.30–1.40)
	> 75 years	20,340	05,751	*	1.23 (1.21–1.24)	0.08 (0.06 0.00)
			0.70	0 1.00 1.50 2.00 4.00		0.98 (0.90-0.99)
		Do	ath loca lik	oly Dooth more likely		
		De	auriessik			

Tancredi M et al. N Engl J Med 2015;373:1720-1732.

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Diabetes Disparities

Hispanics have seen the largest increase in age-adjusted diabetes rates, 4.7 points higher than that of whites and 5.2 points higher than that of blacks.

Diabetes Rates



Source: RI Behavioral Risk Factor Surveillance System, RI Department of Health



Benefit of different interventions for Type 2 diabetes



Ray et al. Lancet 2009;373(9677):1765-72

Intensive BP control in Type 2 DM

Meta-analysis of RCTs (56,687 individuals) comparing intensive vs. standard BP control

Intensive BP control significantly reduced:

- major cardiovascular events
 - RR: 0.85; 0.77–0.94; *p* = 0.001
- myocardial infarction
 - RR: 0.87; 95% CI: 0.76–1.00; *p* = 0.044
- stroke
 - RR: 0.77; 95% CI: 0.66–0.89; *p* < 0.001





AHA/ACC HTN guidelines: BP Goals

Clinical Condition	BP Goal
Clinical CVD or 10-year ASCVD risk ≥10%	<130/80
No clinical CVD and 10-year ASCVD risk <10%	<130/80
Older persons (≥65; noninstitutionalized, ambulatory)	<130 (SBP)
Diabetes mellitus	<130/80
Chronic kidney disease	<130/80
Chronic kidney disease after renal transplantation	<130/80
Heart failure	<130/80
Stable ischemic heart disease	<130/80
Secondary stroke prevention	<130/80
Secondary stroke prevention (lacunar)	<130/80
Peripheral arterial disease	<130/80



A

Clear evidence from well-conducted RCTs

B Supportive evidence from well-conducted cohort studies

2021 ADA Standards of Care



Supportive evidence from poorly controlled or uncontrolled studies

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Expert consensus or clinical experience

2021 ADA Recommendations: Blood Pressure

•For individuals with diabetes and hypertension at lower risk...blood pressure target of <140/90 mmHg.

•For individuals with diabetes and hypertension at higher cardiovascular risk...blood pressure target of <130/80 mmHg

Higher risk = 10-year ASCVD risk >15%),









REDUCING RISK IN PATIENTS WITH T2DM

Blood Pressure Control

< 130/80 mm Hg

Statin Effects on Major Vascular Events





 For patients...with diabetes and ASCVD or 10-year ASCVD risk >20%, high-intensity statin therapy



Diabetes Care

STANDARDS OF MEDICAL CARE IN DIABETES-2021

•if LDL cholesterol is ≥70 mg/dL...consider adding ezetimibe or PCSK9 inhibitor.



American Diabetes Association Standards of Medical Care in Diabetes - 2021. Diabetes Care 2021;44(Suppl. 1):S1-S2

2021 ADA Recommendations: Lipids

•In patients with diabetes who have **multiple ASCVD risk factors**, especially those ages **50-70** it is reasonable to **consider high-intensity statin** therapy.

• For patients **20-39 years** with additional **ASCVD risk factors**...it is reasonable to consider **statin therapy** (no mention of intensity)

• For patients 40-75 years *without* additional ASCVD risk factors...it is reasonable to consider **moderate intensity statin therapy**



Diabetes Care

STANDARDS OF MEDICAL CARE IN DIABETES-2021

B



IMPROVE-IT (Ezetimibe) Major Pre-specified Subgroups



Cannon CP et al. Ezetimibe added to statin therapy after acute coronary syndromes. N Engl J Med June 3, 2015

Fourier Trial: Diabetes Subgroup

Post MI patients on statin therapy randomized to receive addition of PCSK9i or placebo



Reduce – It Trial

8,179 patients with elevated triglycerides, on maximum tolerated statin therapy were randomized to EPA only fish oil 4 g daily or mineral oil placebo.



Cardiovascular Risk Reduction with Icosapent Ethyl for Hypertriglyceridemia

Deepak L. Bhatt, M.D., M.P.H., P. Gabriel Steg, M.D., Michael Miller, M.D., Eliot A. Brinton, M.D., Terry A. Jacobson, M.D., Steven B. Ketchum, Ph.D., Ralph T. Doyle, Jr., B.A., Rebecca A. Juliano, Ph.D., Lixia Jiao, Ph.D., Craig Granowitz, M.D., Ph.D., Jean-Claude Tardif, M.D., and Christie M. Ballantyne, M.D., for the REDUCE-IT Investigators*

Reduce – It Baseline Characteristics

	Icosapent Ethyl (N=4089)	Placebo (N=4090)
Age (years), Median (Q1-Q3)	64.0 (57.0 - 69.0)	64.0 (57.0 - 69.0)
Female, n (%)	1162 (28.4%)	1195 (29.2%)
Non-White, n (%)	398 (9.7%)	401 (9.8%)
Secondary Prevention Cohort	2892 (70.7%)	2893 (70.7%)
Primary Prevention Cohort	1197 (29.3%)	1197 (29.3%)
Low-intensity statin	254 (6.2%)	267 (6.5%)
Moderate-intensity statin	2533 (61.9%)	2575 (63.0%)
High-intensity statin	1290 (31.5%)	1226 (30.0%)
Type 2 Diabetes, n (%)	2367 (57.9%)	2363 (57.8%)
Triglycerides (mg/dL), Median (Q1-Q3)	216.5 (176.5 - 272.0)	216.0 (175.5 - 274.0)
HDL-C (mg/dL), Median (Q1-Q3)	40.0 (34.5 - 46.0)	40.0 (35.0 - 46.0)
LDL-C (mg/dL), Median (Q1-Q3)	74.0 (61.5 - 88.0)	76.0 (63.0 - 89.0)
Triglycerides Category		
<150 mg/dL	412 (10.1%)	429 (10.5%)
150 to <200 mg/dL	1193 (29.2%)	1191 (29.1%)
≥200 mg/dL	2481 (60.7%)	2469 (60.4%)

Bhatt DL, Steg PG, Miller M, et al. N Engl J Med. 2018.

REDUCE-It Trial

Primary End Point: CV Death, MI, Stroke, Coronary Revasc, Unstable Angina



REDUCE-It Controversy

Vascepa decreased triglycerides 22% (falling to 170 mg/dL)

BUT...Patients who received placebo (mineral oil) had a 10% increase in LDL-c, 6% more than in the Vascepa group

ALSO levels of c-reactive protein increased from 2.1 mg/L to 2.8 mg/L in the placebo arm – a 30% increase.

IN ADDITION, median APO-B levels increased in the placebo arm from 83 mg/dL to as high as 89 mg/dL.



In patients with ASCVD or other cardiac risk factors on a statin with controlled LDL-C, but elevated triglycerides (135-499 mg/dL), the addition of icosapent ethyl can be considered to reduce cardiovascular risk[.]



Diabetes Care

STANDARDS OF MEDICAL CARE IN DIABETES-2021

American Diabetes Association Standards of Medical Care in Diabetes - 2021. Diabetes Care 2021;44(Suppl. 1):S1-S2

2021 ADA Recommendations: Lipids

•Combination therapy with **statin + fibrate** ... **generally not recommended**.

•Combination therapy with **statin + niacin** ... **generally not recommended**.

DON'T DO IT!!!!!!!!!



Diabetes Care

STANDARDS OF MEDICAL CARE

IN DIABETES-2021



American Diabetes Association Standards of Medical Care in Diabetes - 2021. Diabetes Care 2021;44(Suppl. 1):S1-S2

REDUCING RISK IN PATIENTS WITH T2DM

Statin therapy

+/- Ezetimibe, PCSK9i, EPA

Association between statins and development of diabetes

Statin

Odds ratio (95% CI)

Overall (n=91 140) Atorvastatin only (n=7773) Simvastatin only (n=18 815) Rosuvastatin only (n=24 714) Pravastatin (n=33 627) Lovastatin (n=6211)

1.09 (1.02–1.17)

- 1.14 (0.89–1.46)
- 1.11 (0.97-1.26)
- 1.18 (1.04–1.33)
- 1.03 (0.90-1.19)
- 0.98 (0.70-1.38)

Statins, Diabetes, CV Events



Ridker PM et al. *Lancet* 2012;380:565



FDA reports on the Risk of Diabetes with statins February 2012

A small increased risk of elevated blood sugar levels and the development of Type 2 diabetes have been reported with the use of statins.

"Clearly we think that the heart benefit of statins outweighs this small increased risk"

But blood-sugar levels may need to be assessed after instituting statin therapy.

Aspirin

Everyone agrees ... every secondary prevention patient (with or without diabetes) should receive aspirin.

But what about patients with diabetes and NO CVD?



ASCEND: 15,480 patients Age ≥ 40 years, + DIABETES

and no baseline cardiovascular disease; Randomized to Aspirin 100 mg daily vs. placebo

ASCEND: Primary Outcome CVD death, MI, UA, Stroke or TIA



ASCEND: major bleeding



ASCEND Study Collaborative Group. Am Heart J 2018;198:135-144

2021 ADA Recommendations: Aspirin

Recommendations

- •Use aspirin therapy (75–162 mg/day) as a secondary prevention strategy in those with diabetes and a history of ASCVD.
- •Aspirin therapy (75–162 mg/day) may be considered as a primary prevention strategy in those with diabetes who are at increased cardiovascular risk, after a comoprehensive discussion with the patient on the benefits versus increased risk of bleeding.








REDUCING RISK IN PATIENTS WITH T2DM

Low dose aspirin in secondary prevention

Use only after a comprehensive risk discussion

Association between HbA1c and CVD



Intensive glucose control and CV events

27,049 participants, 2370 major vascular events



Turnbull FM et al. Diabetologia 2009;52:2288–2298

ACCORD Glycemia Trial: 10,251 patients with T2DM randomized to HbA1c goal of <6 or 7-7.9

22% Incre	ease in mortality wit	h an I (%)	HR (95% CI)	Р
Primary	glucose control stra	1 (7.23)	0.90 (0.78-1.04)	0.16
Secondary				
Mortality	257 (5.01)	203 (3.96)	1.22 (1.01-1.46)	0.04
Nonfatal MI	186 (3.63)	235 (4.59)	0.76 (0.62-0.92)	0.004-
Nonfatal Stroke	67 (1.31)	61 (1.19)	1.06 (0.75-1.50)	0.74
CVD Death	135 (z.o.,	24% decrease in nonfatal myocardial infarctions with an intensive glucose control strategy		
CHF	152 (2.96)			

Severe Hypoglycemia in ACCORD glycemia Trial



ACCORD Study Group, NEJM 2008 358:2545-2549.

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Risk of All-Cause and CV Mortality With Sulfonylureas vs other diabetes medications

Meta-analysis of 82 RCTs and 26 observational studies among patients with T2DM receiving SUs vs placebo or other antihyperglycemic drugs

	All-Cause Mortality	Cardiovascular Mortality
SU vs. Placebo	1.07 (0.90-1.28)	1.25 (0.98-1.62)
SU vs. Biguanide (Metformin)	1.37 (1.03-1.84)	1.38 (0.90-2.16)
SU vs. Thiazolidinedione	1.54 (1.14-2.10)	3.05 (1.79-5.54)
SU vs. DPP-4 inhibitor	2.03 (1.22-3.58)	4.42 (1.92-13.0)
SU vs. GLP-1 receptor agonist	1.85 (0.80-5.19)	45.4 (2.07-362.8)
SU vs. SGLT2 inhibitor	NA	42.6 (1.71-359.1)
SU vs. Insulin	1.21 (1.01-1.45)	1.30 (1.02-1.66)

Diabetes medications through the years



UKPDS: Newly-diagnosed obese, type 2 diabetes patients randomized to metformin, intensive glucose control (with SU or insulin), or conventional glucose control (SU or insulin)



Myocardial infarction

Diabetes medications through the years



Increased risk of congestive heart failure with both pioglitazone and rosiglitazone

• Meta-analysis of 20,191 patients with pre-diabetes treated with T2D as compared to other glucose lowering agents.



The FDA approach

- ✓ FDA would continue to approve anti diabetes medications on basis of HbA1c lowering
- But now FDA mandated post-approval large randomized outcomes trials to verify cardiovascular safety of newly approved anti diabetes medications. They need to prove "noninferiority." (FDA mandated upper boundary 1.3)



White WB et. al. N Engl J Med 2013; 369:1327-1335

Scirica BM et. al. N Engl J Med 2013; 369:1317-1326

Green JB et. al. N Engl J Med 2015; 373:232-242

Increased risk of heart failure hospitalization with saxagliptin







Zinman B et al. N Engl J Med 2015; 373: 2117-28

Neal B et al. N ngl J Med 2017. DOI: 10.1056/NEJMoa1611925

Wiviott SB et al. N ngl J Med 2018.

Presented at ADA 2020

EMPA-REG OUTCOME: Cardiovascular death



Zinman B et al. N Engl J Med 2015, published on-line, 9-1-15, DOI:10.1056/NEJMoa1504720

EMPA-REG OUTCOME: 3-point MACE



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Fu et al. Int J. Cardiol. Vol. 352. Pg 172-179 April 1, 2022



Fu et al. Int J. Cardiol. Vol. 352. Pg 172-179 April 1, 2022

SGLT2i: Consistent benefit on HF Hospitalization



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Renal handling of glucose



SGLT2 inhibitor mechanism



1Bakris et al. Kidney Int 2009;75;1272–7.

SGLT2 inhibitors: Glucose loss



1 g glucose = 4 kcal

1. Nomura S, et al. J Med Chem. 2010; 53(17):6355-6360. 2. Sha S, et al.; Diabetes Obes Metab. 2011;13(7):669-672. 3. Liang Y, et al. PLoS One. 2012; 7(2):e30555. 4. Devineni D, et al. Diabetes Obes Metab. 2012. 5. Rosenstock J, et al. Diabetes Care. 2012 Abdul-Ghani MA, DeFronzo RA. Endocr Pract. 2008; Nair S, Wilding JP. J Clin Endocrinol Metab. 2010.

Heart failure outcomes in clinical trials



European Journal of Heart Failure. Volume 19, Issue 1, pages 43-53, 21 SEP 2016 DOI: 10.1002/ejhf.633

2021 ADA Recommendations: Glucose

•In patients with type 2 diabetes who have established ASCVD, or multiple ASCVD risk factors or *established kidney disease*, an SGLT2 inhibitors or GLP-1 receptor agonists with demonstrated cardiovascular disease benefit...is recommended.

- SGLT2 inhibitor to reduce the risk of MACE and/or HF hospitalization
- GLP-1 receptor agonist to reduce the risk of MACE



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Diabetes Care

STANDARDS OF MEDICAL CARE IN DIABETES-2021 2018 ACC Expert Consensus Decision Pathway on Novel Therapies for Cardiovascular Risk Reduction in Patients With Type 2 Diabetes and Atherosclerotic Cardiovascular Disease

A Report of the American College of Cardiology Task Force on Expert Consensus Decision Pathways

Endorsed by the American Diabetes Association

Writing Committee Sandeep R. Das, MD, MPH, FACC, *Co-Chair* Brendan M. Everett, MD, MPH, FACC, *Co-Chair*

Kim K. Birtcher, PHARMD, MS, CDE, AACC Jenifer M. Brown, MD William T. Cefalu, MD* James L. Januzzi, JR, MD, FACC Rita Rastogi Kalyani, MD* Mikhail Kosiborod, MD, FACC Melissa L. Magwire, RN, CDE Pamela B. Morris, MD, FACC Laurence S. Sperling, MD, FACC

*American Diabetes Association representative.

Task Force	James L. Januzzi, Jr, MD, FACC, <i>Chair</i>	
on Expert		
Consensus		
Decision	Tariq Ahmad, MD, MPH, FACC	
Pathways	Brendan Everett, MD, FACC	
	William Hucker, MD, PHD	
	Dharam J. Kumbhani, MD, SM, FACC	

Joseph E. Marine, MD, FACC Pamela B. Morris, MD, FACC Robert N. Piana, MD, FACC Sunil V. Rao, MD, FACC Marielle Scherrer-Crosbie, MD, PhD Karol E. Watson, MD, FACC Barbara S. Wiggins, PHARMD, AACC

Writing Committee et al. JACC 2018;j.jacc.2018.09.020

Key Points from ACC Consensus Pathway

•The CV specialist is well-positioned to incorporate...newer antihyperglycemic agents into routine practice.

•Patients and providers can choose medications that have demonstrated benefits in reducing heart attack, stroke, and CV death, rather than just reducing blood glucose.

•Cardiologists should consider these new medications part of their armamentarium in reducing CV morbidity and mortality

The link between Diabetes and CVD

- •To reduce risk in patients with T2DM focus on blood pressure control, lipid control, and appropriate use of glucose lowering medications
- •Many (most) of our patients with CVD have diabetes, pre-diabetes, or IR
- •Ask the question of every ASCVD patient "Do they also have T2DM?"
- •In patients with ASCVD and T2DM use a glucose lowering agent of proven cardiovascular benefit
- •Aim for a HbA1c that the patient can achieve safely AVOID HYPOGLYCEMIA

RESOURCES

<u>Standards of Medical Care in Diabetes—2022 Abridged for Primary</u> <u>Care Providers | Clinical Diabetes | American Diabetes Association</u> (diabetesjournals.org)

2020 Expert Consensus Decision Pathway on Novel Therapies for Cardiovascular Risk Reduction in Patients With Type 2 Diabetes - PMC (nih.gov)

The ADA's 2022 Standards of Medical Care in Diabetes Update

Feb. 23, 2022 Tagged: Practice Transformation

0 Comments



<u>J Am Coll Cardiol.</u> Author manuscript; available in PMC 2020 Oct 9. *Published in final edited form as:* <u>J Am Coll Cardiol. 2020 Sep 1; 76(9): 1117–1145.</u> Published online 2020 Aug 5. doi: 10.1016/j.jacc.2020.05.037 PMCID: PMC7545583 NIHMSID: NIHMS1632613 PMID: <u>32771263</u>

2020 Expert Consensus Decision Pathway on Novel Therapies for Cardiovascular Risk Reduction in Patients With Type 2 Diabetes

Presenter's Contact Information

Karol Watson, MD, PhD, FACC KWatson@mednet.ucla.edu

Frequently Asked Questions (FAQs)

1. Can we prevent diabetes?

Yes. Diabetes can be prevented with lifestyle measures such as diet and exercise.

2. Does tight glycemic control reduce CVD?

Tight glycemic control has been shown to consistently decrease microvascular events such as neuropathy, nephrophathy, and blindness. But tight glycemic control has NOT been consistently shown to decrease MACROvascular events such as CVD events of myocardial infarction and stroke.

3. How do the new diabetes drugs fit in with other therapies for cardiovascular prevention? New diabetes therapies with documented cardiovascular benefit should be used in conjunction with other preventive therapies in diabetes such as statins.

4. Are the new diabetes drugs useful for preventing CVD in metabolic syndrome patients? This has never been studied.





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• Webinar participants will <u>only have up to two weeks after webinar date</u> to email Leilanie Mercurio at <u>Imercurio@lacare.org</u> to request the evaluation form if the online survey is not completed yet. No name, no survey or completed evaluation and less than 75 minutes attendance duration time via log in means No CME or CE credit, No CME or CE certificate.

