


Current Landscape of Cardiometabolic Clinical Trials: Lp(a), MASH, Diabetes, Obesity

Heather M Johnson, MD, FAHA, FACC, FASPC
Director of Preventive Cardiology for Women's Services - Christine E. Lynn Women's Health & Wellness Institute, Baptist Health South Florida; Associate Professor, Florida Atlantic University Boca Raton, Florida



1


Disclosures



- Consultant: Esperion Therapeutics, Novartis, Amgen, Medtronic
- Speaker: Esperion Therapeutics

2

Objectives



1. Define the significance of clinical trials in advancing treatment for cardio-metabolic diseases including metabolic dysfunction-associated liver disease, diabetes, obesity and lipoprotein(a)
2. Describe the efficacy and safety profiles of emerging therapies based on current clinical trial data
3. Discuss key components of designing robust cardio-metabolic clinical trials, including patient engagement, patient diversity, endpoints, and the role of the Cardiovascular Nurse

3

MASLD Overview

MASLD Diagnosis, Risk Stratification, and Management
Abushamat LA, et al. Clinical Gastroenterology and Hepatology. 2024;22:1565-1574

Identify High Risk Groups for Fibrotic MASH

- T2D
- Prediabetes
- Obesity with comorbidities
- ≥2 metabolic risk factors
- Elevated liver enzymes (AST, ALT >30)
- Family history of MASH cirrhosis
- Imaging evidence of hepatic steatosis plus ≥1 of 5 cardiometabolic criteria*

Two-Step Approach:

1. FIB-4 index

- >1.3 → 2. Liver Stiffness Measurement (LSM)/Enhanced Liver Fibrosis (ELF) Score
- <1.3 → **Low Risk***

2. Liver Stiffness Measurement (LSM)/Enhanced Liver Fibrosis (ELF) Score

- LSM 8-12 kPa or ELF 7.7-9.8 → **Intermediate Risk**
- FIB-4 >2.67 or LSM >12 kPa or ELF >9.8 → **High Risk**

*Reassess every 1-3 years
*2.U if ≥55 years old

Management

All Risk Groups

- Lifestyle:** Mediterranean diet, Exercise ≥150 min/week, Smoking Cessation, Coffee
- Weight Loss:** AOMs, Bariatric Surgery
- Identify and Treat Co-morbidities:** T2D, HPL, HTN, OSA

Intermediate and High Risk

- Pharmacotherapy:** Without T2D or MASH: HPL, Vitamin E; With T2D or MASH: Proglitazone, GLP-1 RAs
- Specialist Care:** If intermediate to high risk of fibrosis, referral to liver specialist to consider other testing/biopsy

***Cardiometabolic Criteria**

Adults

- BMI ≥ 25kg/m² or WC >94cm (males), 80cm (females) or ethnicity adjusted
- Fasting glucose ≥100mg/dL or 2-hour post-load glucose ≥140mg/dL or HgA1c ≥7% or T2D or T2D treatment
- DP^a ≥130/85mmHg or HTN treatment
- TG ≥150mg/dL or lipid lowering therapy
- HDL ≤40mg/dL or lipid lowering therapy

Pediatrics

- BMI ≥ 85th percentile for age/sex or WC >95th percentile or ethnicity adjusted
- Fasting glucose ≥100mg/dL or serum glucose ≥200mg/dL or 2-hour post-load glucose ≥140mg/dL or HgA1c ≥7% or T2D OR T2D treatment
- <10 years old: BP ≥130/80 mmHg or ≥95th percentile; ≥13 years old: BP ≥130/85 or HTN treatment
- <10 years old: TG ≥100mg/dL; ≥10 years old: TG ≥150mg/dL or lipid lowering therapy
- HDL <40mg/dL or lipid lowering therapy

7

Global Prevalence

Overall: 38.8% (32.9-44.9); North America: 36.9% (30.1-41.6)

Europe: 55.3% (36.2-73); Asia: 37.31% (29.8-43.2)

Lean: 5.37% (4.7-6.6); Nonobese: 29.8% (26.1-33.7)

Expected >60% prevalence in the US by 2030

Chan KE, et al. The Journal of Clinical Endocrinology & Metabolism. 2022; 107: 2691-2700.
Teng MLB, et al. Clinical and Molecular Hepatology 2023;29(Suppl):S32-S42

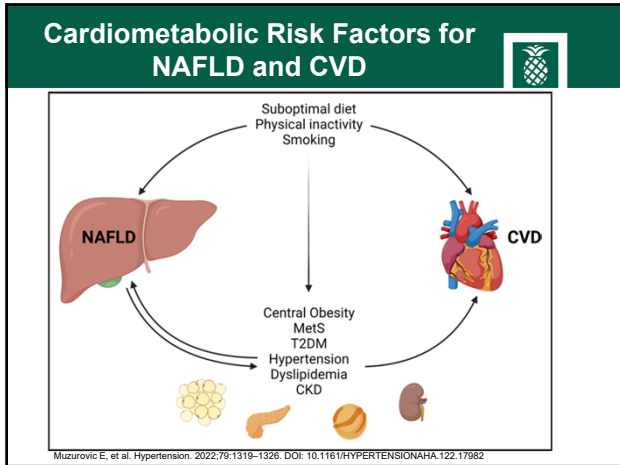
8

MAFLD: Heterogeneous Disease

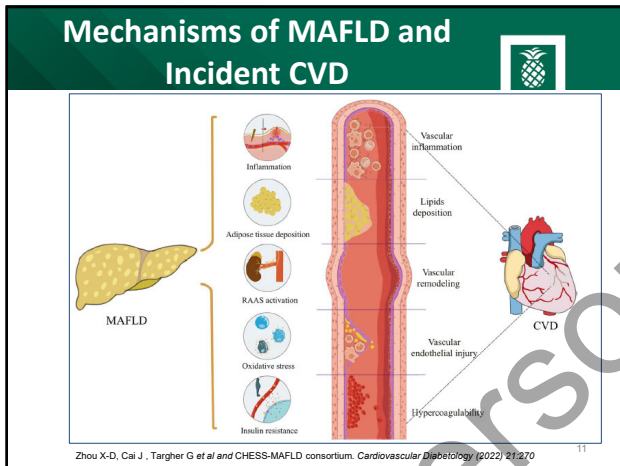
- Prevalence of fatty liver: Hispanic ethnicity > White > Black
- Fibrosis risk did not differ according to race/ethnicity
- Rising prevalence among Asian populations
- Globally – higher among males

Eslam M, Sanyal AJ, George J. Gastroenterology 2020;158:1999-2014

9



10



11

Trial Design is Critical: CVD Mortality – NAFLD vs MAFLD

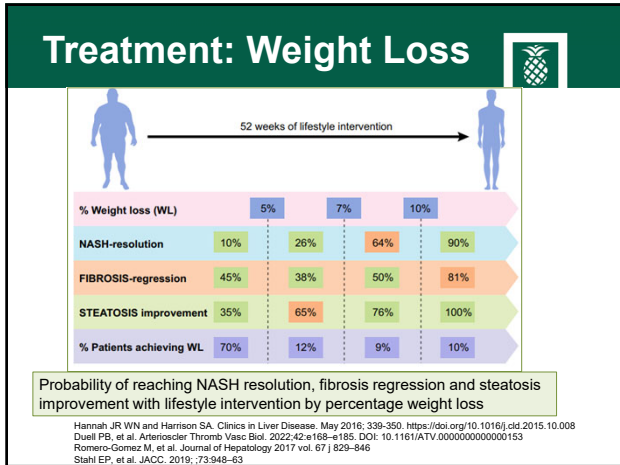
Study	Patients (n)	Outcomes
Muthiah et al. ¹¹ (2022) NHANES III – Type 2 diabetes patients	Total MAFLD/NAFLD=1,982/4,982/excluded Both MAFLD and NAFLD=2,950 MAFLD only=2,022 NAFLD only=Excluded	1. MAFLD-only had increased cardiovascular mortality compared to MAFLD+NAFLD (HR 1.26, 95% CI 1.05-1.52).
Niemi et al. ¹² (2021) Community-based cohort study with 7-year follow-up	Total MAFLD/NAFLD=2,885/990/940 Both MAFLD and NAFLD=902 MAFLD only=38 NAFLD only=38	1. MAFLD had increased overall cardiovascular non-fatal and fatal events when compared to NAFLD (HR 4.2, 95% CI 1.5-11.5 vs. HR 3.7, 95% CI 1.3-10.3, P<0.006). 2. MAFLD-only had significantly higher rates of cardiovascular non-fatal and fatal events when compared to NAFLD only (HR 7.2, 95% CI 2.4-21.5 vs. HR 1.9, 95% CI 0.25-14.8).
Nguyen et al. ¹³ (2021) NHANES III	Total MAFLD/NAFLD=2,997/2,742/2,494 Both MAFLD and NAFLD=2,240 MAFLD only=503 NAFLD only=254	1. On unadjusted modelling, MAFLD-only had higher increased cardiovascular disease mortality vs. NAFLD+MAFLD (HR 84, 95% CI 2.6-34.6, P=0.001 vs. HR 70, 95% CI 2.3-23.1, P=0.002). On adjusted modelling, neither MAFLD-only or MAFLD+MAFLD had statistically significant associations with cardiovascular mortality, but MAFLD-only had a trend towards significance (HR 6.7, 95% CI 0.9-47.1, P=0.06).
Lee et al. ¹⁴ (2021) Nationwide Korean health screening database	Total MAFLD/NAFLD=1,628,540/2,680,217/3,573,644 Both MAFLD and NAFLD=2,625,321 MAFLD only=948,323 NAFLD only=54,896	1. NAFLD+MAFLD had higher increased cardiovascular events when compared to MAFLD-only and NAFLD-only (HR 1.56, 95% CI 1.54-1.58 vs. HR 1.43, 95% CI 1.41-1.45 vs. HR 1.00, 95% CI 1.03-1.15).
Guerreiro et al. ¹⁵ (2021) Database of Brazilian patients undergoing liver biopsy at university hospital	Total MAFLD/NAFLD=171/154/109 Both MAFLD and NAFLD NAFLD only	1. Non-significant higher prevalence of high-risk cardiovascular scores was observed in MAFLD group compared to NAFLD group (56.4% vs. 25.7%, P=0.209).

MAFLD, metabolic dysfunction-associated fatty liver disease; NAFLD, nonalcoholic fatty liver disease; NHANES, National Health and Nutrition Examination Surveys; HR, hazard ratio; 95% CI, 95% confidence interval; RR, risk ratio.

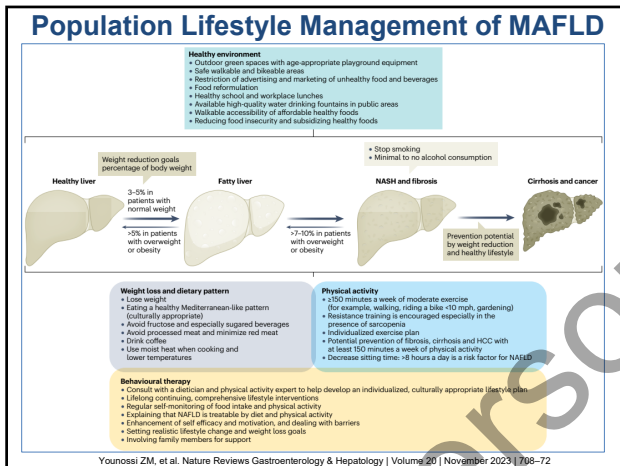
There is a stronger association with MAFLD, compared to NAFLD on CVD morbidity and mortality. MAFLD diagnosis helps to identify patients for additional cardiovascular risk assessment and intervention

Gofton C, et al. Clin Mol Hepatol 2023;29(Suppl):S17-S31

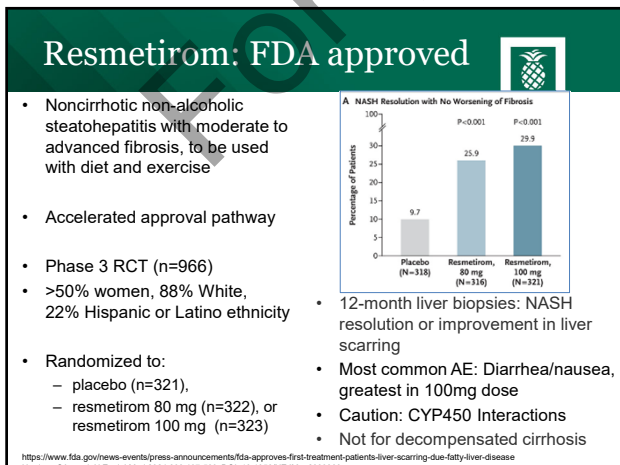
12



16



17



18

T2DM and NAFLD (MASLD)

T2DM

NAFLD

Diabetes promotes:

- ↑ risk of steatohepatitis
- ↑ risk of cirrhosis
- ↑ risk of hepatocellular carcinoma

NAFLD promotes:

- Worse insulin resistance
- ↑ risk of atherogenic dyslipidemia
- ↑ risk of T2DM, ↑ difficulty to manage
- ↑ risk of cardiovascular disease

Prevalence of MAFLD much higher with T2DM (>60%)

Jeeyavudeen S, et al. World J Gastroenterol 2023; 29(1): 126-143.
Budd J, Cusi, et al. Curr Diab Rep 20, 59 (2020). <https://doi.org/10.1007/s11892-020-01349-1>

19

AHA PRESIDENTIAL ADVISORY

Cardiovascular-Kidney-Metabolic Health: A Presidential Advisory From the American Heart Association

The diagram illustrates the progression of Cardiovascular-Kidney-Metabolic (CKM) health through four stages:

- Stage 0: No Risk Factors** - Focus on primordial prevention and preserving cardiovascular health.
- Stage 1: Excess/Dysfunctional Adipose Tissue** - Includes overweight/obesity, abdominal obesity, and impaired glucose tolerance.
- Stage 2: Metabolic Risk Factors and CKD** - Includes hypertension, hypertriglyceridemia, metabolic syndrome, Type 2 diabetes, and moderate-to-high-risk CKD.
- Stage 3: Subclinical CVD in CKM Syndrome** - Includes subclinical ASCVD, subclinical HF, and subclinical CKD.
- Stage 4: Clinical CVD in CKM Syndrome** - Includes CHD, HF, Stroke, PAD, and AMI.

Risk equivalents of subclinical CVD in CKM Stage 3:

- Very high-risk CKD (G stage 4 and 5 CKD or by KDIGO heat map)
- High predicted risk for CVD using risk calculator

"Screening for advanced liver fibrosis related to MASLD every 1–2 y for individuals with diabetes, prediabetes, or ≥2 metabolic risk factors using the FIB-4 index"

Numele CE, et al. Circulation. 2023;148:1606–1635. DOI: 10.1161/CIR.0000000000001184

20

SGLT2 Inhibitors

Renoprotection
Kidney disease

- ↑ Natriuresis
- ↑ Glycosuria
- ↓ Hyperfiltration
- ↓ Albuminuria
- ↑ Oxygen delivery
- ↓ Intraglomerular pressure
- ↓ Inflammation
- ↑ Vascular function

Bidirectional benefits

Cardioprotection
Heart disease

- ↓ Heart failure
- ↓ Cardiac death
- ↓ Blood pressure
- ↑ Ketone utilization
- ↑ Oxygen delivery
- ↓ Arterial stiffness
- ↓ Inflammation
- ↑ Vascular function
- ↓ Plasma volume
- ↓ Cardiac preload and/or afterload
- ↓ Cardiac hypertrophy
- ↓ Fibrosis

SGLT2i

- ↑ Glucagon
- ↑ Insulin
- ↓ Glucotoxicity
- ↓ Body weight
- ↑ Ketogenesis
- ↓ NAFLD and/or NASH
- ↓ Plasma levels of uric acid
- ↓ HbA_{1c}
- ↓ Oxidative stress
- ↓ Insulin resistance
- ↑ HDL

FDA Indications: Type 2 DM, Heart failure, Chronic kidney disease

Jeeyavudeen S, et al. World J Gastroenterol 2023; 29(1): 126-143

21

JAMA Internal Medicine | Original Investigation

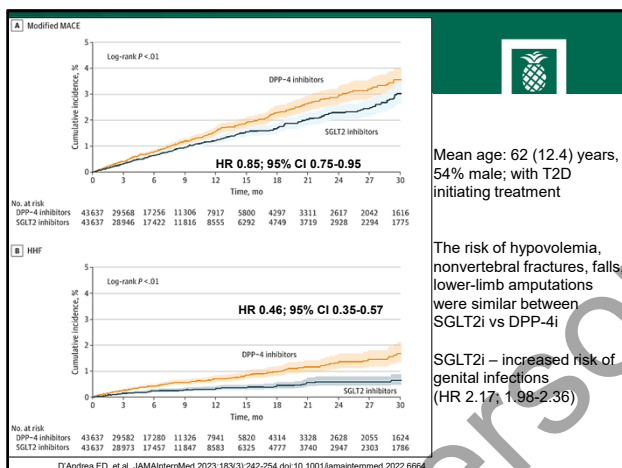
Comparing Effectiveness and Safety of SGLT2 Inhibitors vs DPP-4 Inhibitors in Patients With Type 2 Diabetes and Varying Baseline HbA_{1c} Levels

- New-user; n=144,614 US commercially insured adults
- Primary outcome: Composite MI, stroke, all-cause death and hospitalization for heart failure
- Safety outcomes: Hypovolemia, fractures, falls, genital infections, diabetic ketoacidosis, acute kidney injury, and lower-limb amputation.

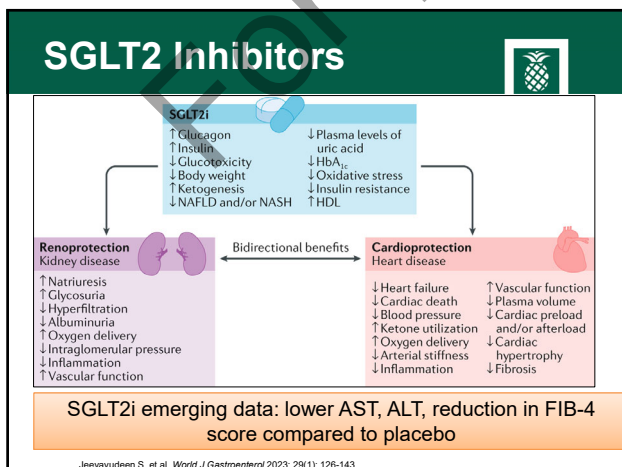
SGLT2i	DPP-4i
canagliflozin, dapagliflozin, empagliflozin, or ertugliflozin	alogliptin, saxagliptin, linagliptin, or sitagliptin

D'Andrea ED, et al. JAMAInternMed 2023;183(3):242-254.doi:10.1001/jamainternmed.2022.6664

22




23



24

GLP-1 RAs Overweight, Obesity and CVD Risk Reduction



The role of GLP-1 RAs in achieving weight loss and improving cardiovascular outcomes in people with overweight and obesity

In the United States^{1,2}

- 31% have overweight (BMI ≥25 kg/m²)
- 42% have obesity (BMI ≥30 kg/m²)

Obesity is associated with an increased risk of CVD and CVD-associated mortality³

Improving the recognition and understanding of GLP-1 RA therapy among HCPs may re-motivate them to support patients in losing weight⁴

Brain^{5,6}

- β-cell function
- Glucose-dependent insulin secretion
- Insulin secretion
- Body weight
- Satiety

Effects of GLP-1 RAs

- Insulin biosynthesis
- ↑ Insulin biosynthesis
- ↑ Pancreatic glucagon secretion
- β-cell apoptosis
- Appetite
- Food intake
- Energy intake
- Eating control

GI tract^{7,8}

- Gastric emptying
- GI motility

GLP-1 RAs approved by the FDA for treatment of obesity⁹

- Liraglutide
- Semaglutide
- Tirzepatide
- Dulaglutide

MACE reduction^{10,11}

Liraglutide (vs. 3 mg¹⁰ vs. 6.5 and 10 mg¹¹)

Semaglutide (vs. 2.4 mg¹⁰ vs. 3.6 mg¹¹ vs. 4.8 mg¹¹)

Tirzepatide (vs. 5, 10 and 15 mg¹¹)

Dulaglutide (vs. 1.5 mg¹¹)

GLP-1 RAs currently under investigation for MACE reduction

- GLP-1 RA semaglutide and tirzepatide in patients with and without T2D
- GLP-1 RA semaglutide in patients with obesity

Weight loss (mean % change in body weight) from people with obesity/overweight without T2D	GLP-1 RA / Placebo	-8.0% / -2.6%	-14.9% / -2.4%	-19.5% / -3.1%	-20.9%
MACE (n of patients with primary composite outcome of time to first occurrence of MACE) from people with T2D	GLP-1 RA / Placebo	13.0% / 14.9%	6.6% / 8.9%	-- / --	12.0% / 13.4%

Mild-to-moderate GI side effects associated with therapy initiation and dose escalation^{12,13}


GLP-1 RAs have a tolerable safety profile

As obesity increases the risk of CVD in patients with and without T2D, cardiologists should take an active role in obesity management. Despite guidelines recommending GLP-1 RA only in patients with T2D, the risk of CVD, GLP-1 RAs are widely prescribed among these patients^{14,15,16}

Michos ED, et al. J Am Heart Assoc. 2023;12:e029282. DOI: 10.1161/JAHA.122.029282

25

A Placebo-Controlled Trial of Subcutaneous Semaglutide in Nonalcoholic Steatohepatitis



P.N. Newsome, K. Buchholtz, K. Cusi, M. Linder, T. Okamoto, V. Ratzliff, A.J. Sanyal, A.S. Sajjaj, and S.A. Harrison, for the N9931-4296 Investigators*

n=320; Mean age: 52.4 (10.8) years; 55% female

A Resolution of NASH with No Worsening of Liver Fibrosis (primary end point)

Odds ratio: 3.36 (95% CI 1.29-8.86)

Odds ratio: 2.71 (95% CI 1.06-7.36)

Odds ratio: 4.87 (95% CI 1.80-17.43)

Odds ratio: 1.42 (95% CI 0.53-3.89)

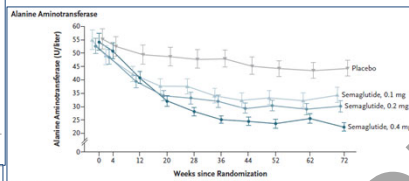
B Improvement in Liver Fibrosis Stage with No Worsening of NASH (secondary end point)

Odds ratio: 1.96 (95% CI 0.84-4.53)

Odds ratio: 1.80 (95% CI 0.43-2.32)

Odds ratio: 1.42 (95% CI 0.53-3.89)

Alanine Aminotransferase



No. of Patients


Placebo	80	80	79	79	77	78	76	75	76	72
Semaglutide, 0.1 mg	80	80	77	76	76	75	75	77	76	76
Semaglutide, 0.2 mg	78	76	76	72	71	70	71	70	70	71
Semaglutide, 0.4 mg	82	80	80	77	74	76	76	76	76	72

Side effects: nausea, diarrhea, emesis, constipation, decreased appetite, GERD, Gallbladder disorders, tachycardia

Newsome PN, et al. N Engl J Med 2021;384:1113-24
DOI: 10.1056/NEJMoa2029395

26

GLP1-RA Cardiometabolic Effects



Pancreas

- ↑ Somatostatin secretion
- ↑ Insulin secretion
- ↑ Beta-cell proliferation

Brain

- ↑ Food and water intake

Cardiovascular system

- ↑ Cardioprotection
- ↑ Glucose utilization
- ↑ Cardiac output
- ↑ Vasodilation
- ↑ Fatty acid metabolism

GLP-1

Stomach

- ↓ Gastric emptying
- ↓ Acid secretion

Gut

- ↓ Motility
- ↓ Lipoprotein secretion

Immune system

- ↓ Inflammation

Adipose tissue

- ↑ Lipolysis
- ↑ Glucose uptake
- ↑ Perfusion

Skeletal muscle

- ↑ Glucose uptake
- ↑ Perfusion

Kidney

- ↑ Diuresis
- ↑ Natriuresis

Liver

- ↓ Glucose production
- ↓ Steatosis

Khan MS, et al. Circulation. 2020;142:1205-1218. DOI: 10.1161/CIRCULATIONAHA.120.045888

27

Global Variation of Elevated Lp(a)

Estimated World Population With Elevated Lp(a) > 50mg/dL = 1.43 Billion

Mean Lp(a) level by Ethnicity

• Global 10%-30% high Lp(a) >50 mg/dL (>100 nmol/L)

Mehta, A., et al. (2022). Lipoprotein (a) and ethnicities. *Atherosclerosis*, 349, 42-52
Patel, N., Mittal, N., Choudhary, P.A., et al. Lipoprotein(a)—When to Screen and How to Treat. *Curr Cardiovasc Risk Rep* 16, 111-120 (2022).

31

Genetically Elevated Lipoprotein(a) and Increased Risk of Myocardial Infarction

Table 1. Basic Characteristics of Participants (White Individuals of Danish Descent) in the 3 Studies

	CCHS	CGPS	CHDS
Total No.	9637	29368	2491
Women, No. (%)	5302 (55)	15260 (52)	566 (23)
Age, mean (SD), y	55 (17)	59 (19)	60 (10)
Diabetes mellitus, No. (%)	311 (4)	1346 (5)	242 (10)

Abbreviations: CCHS, Copenhagen City Heart Study; CGPS, Copenhagen General Population Study; CHDS, Copenhagen Ischemic Heart Disease Study.

• **Causal association between elevated Lp(a) and increased risk of MI, ASCVD**

Figure 1. Risk of Myocardial Infarction by Extreme Levels of Lipoprotein(a) in the General Population

Lipoprotein(a) Percentile	mg/dL	Participants, No.	Events, No.	Multivariable Adjusted HR (95% CI)	Multivariable Adjusted and KVI-2 Adjusted HR (95% CI)
>95th	>117	376	46	~1.22	~1.22
90th-95th	77-117	450	46	~1.09	~1.09
85th-90th	50-76	1791	165	~1.00	~1.00
25th-85th	5-29	3385	241	~1.00	~1.00
<25th (Reference)	<5	1582	104	~1.00	~1.00

Adjusted: age, sex, T chol, TG, BMI, HTN, DM, smoking, use of lipid-lowering therapy; kringle IV type 2 genotype.

Elevated Lp(a) HR: 1.22 (1.09- 1.37) per doubling of Lp(a)

Kamstrup, P.R., et al. 2009. *Jama*, 301(22), 2331-2339.

32

Pathophysiology: Lp(a) and Oxidized Phospholipids on Arterial and Aortic Disease

Lipoprotein(a) : mechanistic insights

Lipoprotein(a) → LDL + Apo(a) + OxPL

Athero → Accelerated atherosclerosis

Thrombosis → Decreased fibrinolysis

Aortic stenosis → Valvular interstitial cells calcification

High Lp(a) / Small Apo(a) isoforms → Heart attack, stroke, PAD / AVR

Durlach, V., et al. (2021). *Archives of cardiovascular diseases*, 114(12), 828-847

33

Independent Association of Lipoprotein(a) and Coronary Artery Calcification With Atherosclerotic Cardiovascular Risk

- MESA: n=4,512; Dallas Heart Study: n=2,078
- Elevated Lp(a): highest race-specific quintile
- CAC score categories: 0, 1-99, ≥100

Elevated Lp(a) and CAC score were independently associated with incident ASCVD

Lp(a) quintile and CAC score	HR (95% CI)	P Value
Lp(a) quintile 5 and CAC ≥100	4.71 (3.01-7.40)	<0.01
Lp(a) quintiles 1-4 and CAC ≥100	2.99 (2.06-4.33)	<0.01
Lp(a) quintile 5 and CAC 1-99	2.35 (1.36-4.08)	<0.01
Lp(a) quintiles 1-4 and CAC 1-99	2.17 (1.49-3.16)	<0.01
Lp(a) quintile 5 and CAC = 0	1.31 (0.73-2.35)	0.36
Lp(a) quintiles 1-4 and CAC = 0	Referent	

Even with a calcium score of zero: An elevated Lp(a) is associated with an increased risk of CVD

Mehta, A. et al. 2022. Journal of the American College of Cardiology, 79(8), 757-768

34

When Should We Screen for Lp(a)? (Recommended Units: nmol/L)

Guidelines Vary

FH of premature ASCVD (<55 years old men, <65 years old women)	A personal history of premature ASCVD
Familial Hypercholesterolemia (LDL-C ≥190 mg/dL)	For cascade screening of family members with severe hypercholesterolemia and/or elevated Lp(a)
To aid discussion about whether to prescribe a statin in those aged 40-75 years with borderline (5.0%-7.4%) 10-year ASCVD risk	To identify those at risk for progressive valvular aortic stenosis

"Lp(a) should be measured at least once in adults to identify those with high cardiovascular risk."

National Lipid Association (NLA), 2019; American College of Cardiology (ACC) / American Heart Association (AHA), 2018; European Atherosclerosis Statement, 2022; Canadian Guidelines, 2021; HEART UK Consensus 2019; Kromberg, F., et al. (2022). Eur Heart J, 43(29), 3020-3064

35

Emerging Lp(a) Therapies

Emerging Lp(a) Therapeutics

Antisense Oligonucleotides	Small-interfering RNA	Oral Agents
<p>Bind apo(a) mRNA preventing translation and production of Lp(a)</p> <p>Pelacarsen</p> <p>Phase 3 completed enrollment</p> <p>In phase 2, mean percent reduction in Lp(a) ranged from 35-80%</p>	<p>RNA-induced silencing complex (RISC) mediated degradation of apo(a) mRNA, preventing translation of protein and subsequent production</p> <p>Opasiran SLN360 LY3819469</p> <p>Phase 3 enrolling Phase 2 completed enrollment Phase 1 & 2 ongoing</p> <p>In phase 2, mean percent reduction in Lp(a) ranged from 70.5%-100.5%</p> <p>In phase 1, reduction in Lp(a) in dose dependent manner; well-tolerated</p>	<p>Disrupts noncovalent interaction between apo(a) & apoB100, preventing disulfide bond and Lp(a) formation</p> <p>Muvalaplin</p> <p>Phase 2 ongoing</p> <p>In phase 1, placebo adjusted Lp(a) reduction 63-65%</p>
Data expected first half of 2026*		

Kaur G. et al. American Journal of Preventive Cardiology 18 (2024) 100641
https://doi.org/10.1016/j.ajpc.2024.100641

36

Highlights on Lp(a)

- Prevalent, genetically determined, causal risk factor for ASCVD and calcific aortic stenosis
- Awareness of elevated Lp(a) improves ASCVD risk stratification
- Inform clinical decisions and shared decision-making for ASCVD risk management
- Measure Lp(a) at least once!

37

37

Improving Diversity in Clinical Trials

INCREASING DIVERSITY IN PARTICIPANTS IN CARDIOVASCULAR TRIALS

SEX/GENDER				DIVERSITY
UNDERREPRESENTED	UNDERREPORTED	LIMITS POTENTIAL	BARRIERS	INCREASING DIVERSITY
Women & Diverse populations underrepresented relative to disease burden	Limited analysis based on sex or race for drug approval	Limits generalizability of trials of drugs, devices, or interventions to clinical practice	Restrictive eligibility criteria Lack of consideration of impact of participation Mistrust/fear	Diversify Team & Trialists Education to Patients Community Engagement

Michos ED, et al. American Journal of Preventive Cardiology; 8: (2021) 100250

38

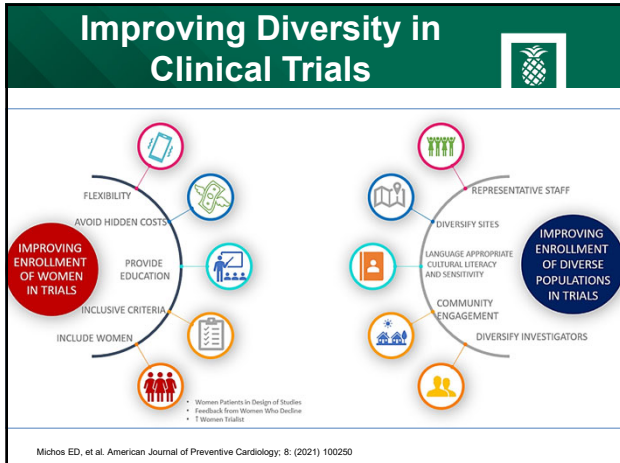
Role of CV Nurse in Clinical Trials

Empowering Cardiovascular Nurses to Engage in Clinical Research

February 18, 2025 | Diana Baptiste

<https://pcna.net/empowering-cardiovascular-nurses-to-engage-in-clinical-research/>

39



40

Summary

- Cardiometabolic disorders, including MASLD are highly prevalent; focus is to manage CVD risk factors and co-morbid conditions
- Lifestyle modifications are the foundation for treatment with pharmacologic therapies to optimize cardiometabolic risk factors (DM, obesity, dyslipidemia)
- There are evolving indications and emerging treatments; however, improving diversity in clinical trial enrollment and increasing CV nurse research leaders is critical to understand safety and efficacy in population subgroups

41

THANK YOU

Heather M Johnson, MD, FAHA, FACC, FASPC
 Director of Preventive Cardiology for Women's Services - Christine E. Lynn Women's Health & Wellness Institute, Baptist Health South Florida;
 Associate Professor, Florida Atlantic University
 Boca Raton, Florida

42

Panelists:



Emily J. Jones
PhD, RNC-OB, FAAN, FAHA, FPCNA
Professor and Cyndy Ellis-Purgeson
Endowed Chair | PhD Program Director
Fran and Earl Ziegler College of Nursing
University of Oklahoma
Oklahoma City, OK



Heather Johnson
MD, MS, MMM
Director of Preventive Cardiology for
Women's Services
Baptist Health South Florida
Clinical Affiliate Associate Professor
Florida Atlantic University
Boca Raton, FL



Eileen Handberg
PhD, ANP-BC, FAHA, FACC, FPCNA
Research Professor of Medicine
Director, Clinical Programs
Program Director, OneFlorida+
University of Florida
Gainesville, FL



Maggie Teliska
Patient Champion
WomenHeart
Johns Island, SC



For personal use only