

The ACC Thanks You For Your Partnership!

































































AMERICAN COLLEGE of CARDIOLOGY®





Welcome to the Industry Advisory Forum Cardiovascular Disease in Women



IAF Welcome Reception (optional) Monday, December 2, 2024 5 - 6:30pm EST KEA, Heart House, Washington, DC

IAF Meeting Tuesday, December 3, 2024 9am - 3pm EST MPR, Heart House, Washington, DC

ACC IAF MEETING AGENDA Topic – <u>Cardiovascular Disease</u> in Women

8:00 am – 9:00 am	BREAKFAST, TAKE SEATS & SETTLE IN				
9:00 am – 9:05 am	Welcome to IAF, Opening Remarks & Introduction Mary Norine Walsh, MD, MACC, ACC Past President, ACC Industry Advisory Forum Chair, Medical Director, Heart Failure & Cardiac Transplantation, Ascension St. Vincent Cardiovascular Research Institute				
9:05 am – 9:30 am	ACC Update + Q&A Cathleen Biga, MSN, FACC, ACC President				
9:30 am – 9:45 am	ACC Advocacy Update + Q&A Nick Morse, MBA, ACC Vice President Advocacy				
9:45 am – 9:55 am	75th Anniversary Update + Q&A Dipti Itchhaporia, MD, MACC, ACC Past President, 75th Anniversary Work Group Chair; Director, Hoag Heart & Vascular Institute				
9:55 am – 10:10 am	White House Initiative on Women's Health Research Carolyn M. Mazure, PhD				
10:10 am – 10:20 am	BREAK				
10:20 am – 11:20 am	Heart Disease in Women – Historic Review and Current State of Affairs Mary Norine Walsh, MD, MACC ACC's CVD in Women Committee Leslie Cho, MD, FACC; Director, Women's Cardiovascular Center, Cleveland Clinic Defining the Problem – Gender Disparities in Treatment - Panel Discussion Moderated by Mary Norine Walsh, MD, MACC Panelists:				
	Aortic Stenosis – Wayne Batchelor, MD, MHS, MBA, FACC; Director, Interventional Heart Program, Inova Health System				



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2:45 pm – 3:00 pm	WRAP-UP AND ADJOURNMENT
2:00 pm – 2:45 pm	Small Group Discussions and Report Out How does CVD in women fit into your organization's overarching health equity strategy? What data is most critical to advancing more equitable prevention and treatmen of CVD in women? What types of implementation programs would be most effective to help drive real change for CVD in women over the next 5 years?
1:00 pm – 2:00 pm	Health Equity Strategy – ACC's Approach to Addressing CVD in Women Biykem Bozkurt, MD, PhD, FACC; ACC Health Equity Task Force Member; Assoc. Director, Cardiovascular Research Institute, Baylor College of Medicine Gender Disparities in Care: What Can We Do About It? - Panel Discussion Moderated by Ty Gluckman, MD, FACC, Medical Director of the Center for Cardiovasculal Analytics, Research, and Data Science (CARDS), Providence Heart Institute Panelists: Addressing gender disparities in AI - Demilade A. Adedinsewo, MD, MPH, FACC; Assistant Professor of Medicine, Mayo Clinic College of Medicine and Science Precision medicine for women with CVD – Michael Honigberg, MD, FACC; Cardiologist-investigator, Massachusetts General Hospital Evidence generation – Erica Spatz, MD, MHS, FACC; Director, Preventive Cardiovascular Health Program, Yale Heart and Vascular Center Evidence dissemination efforts – Candice Silversides, MD, FACC; Clinician Investigator, Toronto General Hospital Research Institute
11:20 am – 12:00 pm 12:00 pm – 1:00 pm	Small Group Discussions and Report Out
	Atrial Fibrillation – Andrea Russo, MD, FACC; Director, Electrophysiology and Arrhythmia Services, Cooper University Health Care Heart Failure - Selma Mohammad, MBBS, FACC; Advanced Heart Failure & Transplant Cardiologist, CHI Health Clinic Heart Institute Hypertension - Natalie Bello, MD, MPH, FACC; Director of Hypertension Research Smidt Heart Institute, Cedars-Sinai

Follow us on Social Media!

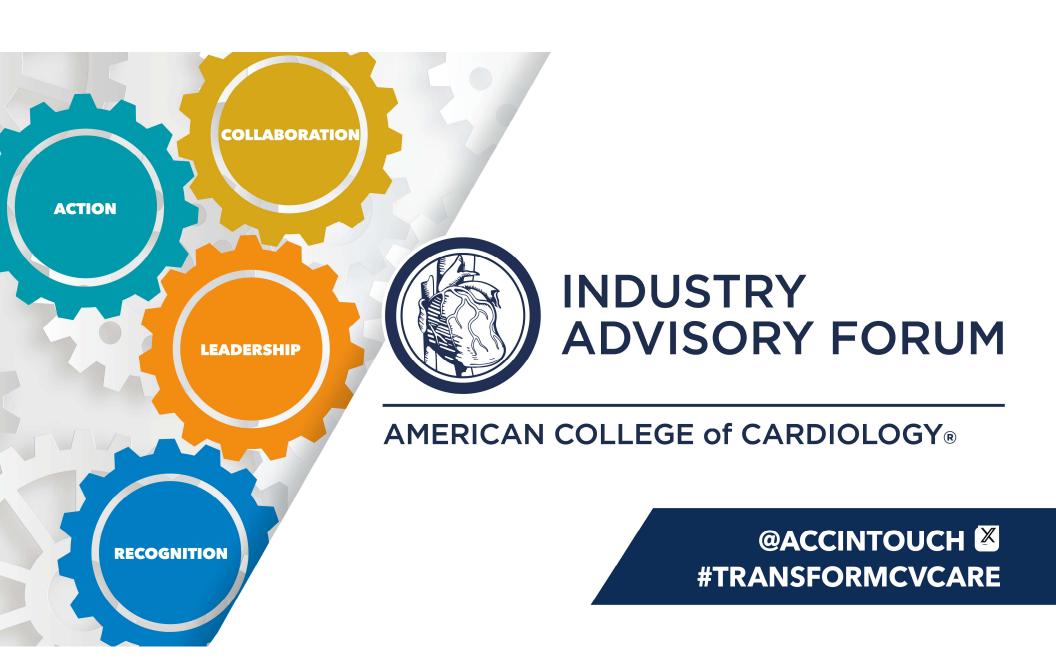
@ACCinTouch
#TransformCVCare











MISSION

To transform cardiovascular care and improve heart health for all

VISION

A world where science, knowledge and innovation optimize cardiovascular care and outcomes

CORE VALUES

Patient-Centered;
Teamwork and
Collaboration;
Professionalism,
Excellence
and Equity



ACC STRATEGIC PLAN (2024-2028)

STRATEGIC PILLARS









MAJOR INITIATIVES (2024-2028)

- Address Health Equity in CV Care
- Assess ACC's Educational Portfolio
- Build Continuous CV Clinical Competence
- Enable Guidance at the Point of Care
- Transform Care Delivery in New Areas



- Actionable CVD health care data, science and tools to address health disparities/SDOH
- Embed health equity in College's education and training
- Establish health equity interventions with membership and collaborations with external partners
- Advocacy and policy to increase awareness of CVD-related health equity issues





Heath Equity and Access Are Global Issues

- National Strategy
- Focus of our Assembly of International Governors
 - Resulting in meetings with Secretaries and Ministers of Health – globally
- Role of SDoH
- Development and Implementation of Sub-Specialty Clinics





Access and Care Delivery

"The main goals of effective care delivery are to improve patient outcomes, enhance the quality of care, and increase patient satisfaction. This is achieved through coordinated efforts, where each team member contributes their expertise to develop and implement a comprehensive, patient-centered treatment plan. This approach is particularly beneficial in cardiology, given the complex nature of cardiac diseases and the need for a multifaceted treatment strategy that addresses medical, lifestyle, and psychosocial aspects of patient care"

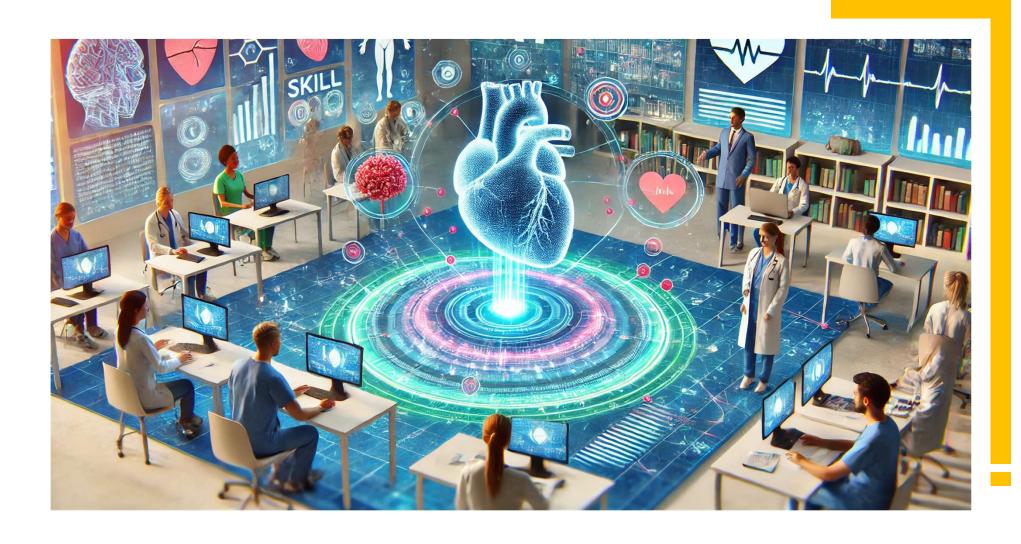




- Personalized educational experiences with trusted content that is relevant, high-quality, competency-driven, and differentiated in the marketplace
- Education development is streamlined, nonduplicative, optimizes collaboration, and fills learning gaps
- Education is disseminated via optimal channels, easily discoverable through datadriven delivery mechanisms (anticipates needs and knowledge gaps)







Al and CV Care Delivery

Improve Cardiovascular Outcomes

Utilizing hybrid-care, remote patient monitoring, and Aldriven care

Empower the AI-enabled Clinician

Address information overload & minimize administrative burden in support of wellbeing

Enhance Patient Engagement

Leverage digital health tools to empower patients to monitor their health

Promoting digital transformation to drive high quality, accessible care at a lower cost for all







- Build a pathway to achieve and maintain continuous clinical competence in all chosen established disciplines of cardiovascular medicine.
 - Pathway will be consistent with ABMS
 Standards for Initial and Continuing
 Certification
 - A supportive framework focused on competency and addressing gaps
- An evolution from Collaborative Maintenance
 Pathway (CMP) to a new Sustaining Professional
 Excellence (SPE) Program





Partner Societies













- Build a clinical data, operational data and accreditation infrastructure for high-quality provision of previously inpatient CV services
- Define best practices for various CV team structures, processes and reimbursement for various practice sizes and geographies
- Develop a digitally enhanced care model
- Advocate to shape structure of payment models to support care models above

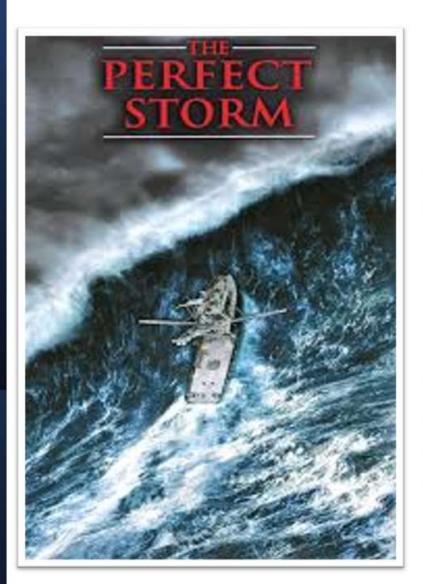






A Perfect Storm is Upon Us

We Need
Care
ransformation



- Workforce crisis:
 MD's, RN's, CVT's
- 11K people >65 y/o daily
- · Health care inflation
- Medicare insolvent in 2026?

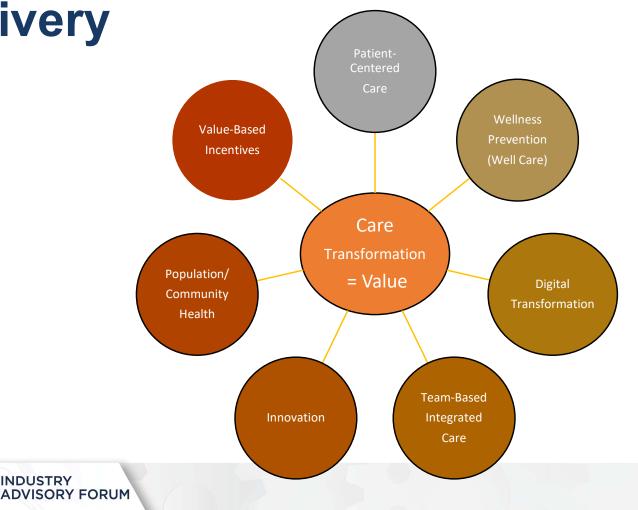
- Declining life-expectancy
- Lack of HealthEquity
- Unsustainable FFS mode
- Silo'ed delivery system

Bottom Line: We MUST Redesign Care

Delivery

INDUSTRY

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ACC Innovation's Focus on the Digital Transformation of Care Delivery

- · Virtual Care
- Remote Patient Monitoring
- · Al-driven Care

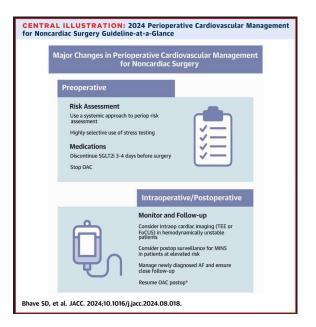
- Quick, searchable and easily accessible information that provides answers that clinicians are looking for at the point of care
 - Diagnosis, management and treatment paths,
 short descriptions, prescribed drugs and dosing
 - Incorporates ACC clinical guidance/guidelines
 - Refers to valid content sources outside of ACC
 - Brings in recent best practices and major practice-changing evidence
- Delivery mechanisms via multiple channels that are integrated into the clinician workflow

Guidance at the Point of Care

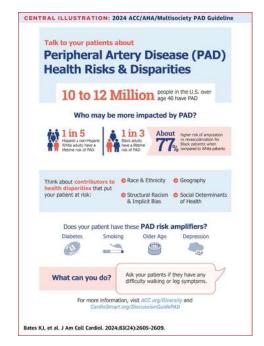


New in ACC/AHA Clinical Guidelines (2024)

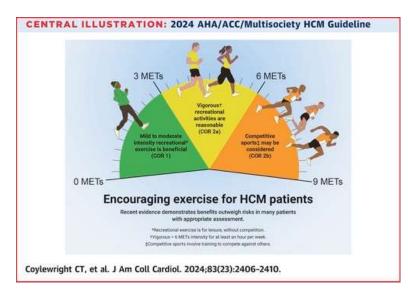
Perioperative



Lower Extremity PAD



Hypertrophic Cardiomyopathy

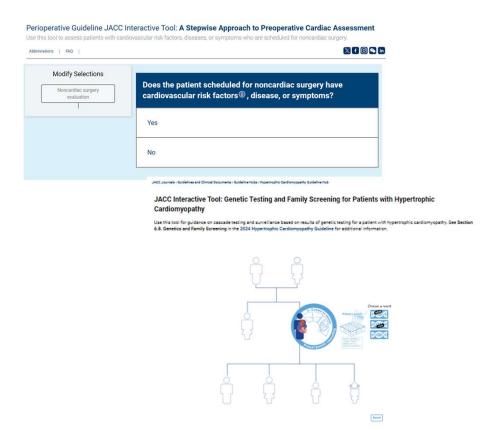




Visit ACC.org/Guidelines for the latest guidelines and resources.

Guideline Resources







ACC ADVOCACY: CHAMPIONING PATIENT ACCESS TO CARE

ACC.org/Advocacy









Advocacy and Our Partners

- Patients, Professional Societies, Industry
- Professional Fee Schedule
- Telehealth PHE
- Site Neutrality
- HHS RFK
- CMS Oz (taking CPT coding on?)
- Changes w FDA



Historical Impacts of "Tiny" Cuts

		Office								Hospital (Pro)													
CPT	Description	1999		2005		2010		2015	,	Jun-15	2016	2017	Ī		1999	:	2005		2010	2015	Jun-15	2016	2017
Stress																							
93015 / 16&	18	\$ 124.99	\$	121.47	\$	97.87	\$	80.88	\$	81.28	\$ 80.99	\$ 81.39		\$	52.47	\$	43.08	\$	41.41	\$ 38.72	\$ 38.92	\$ 38.77	\$ 39.17
Echo																							
93307	Echo Plain	\$ 227.19	\$	231.14	\$	163.06	\$	138.05	\$	138.74	\$ 138.62	\$ 138.29		\$	69.19	\$	52.64	\$	50.73	\$ 47.52	\$ 47.75	\$ 47.58	\$ 47.60
93306	Echo/Dopplr/CF	\$ -	\$	-	\$	251.96	\$	241.02	\$	242.23	\$ 242.70	\$ 243.54				\$	-	\$	72.58	\$ 66.39	\$ 66.72	\$ 67.06	\$ 67.46
93307	Echo	\$ 227.19	\$	231.14	\$	-								\$	69.19	\$	52.64	\$	-				
93320	Doppler	\$ 103.22	\$	102.16	\$	-								\$	29.35	\$	21.80	\$	-				
93325	Color Flow	\$ 129.13	\$	141.43	\$	-								\$	4.31	\$	4.69	\$	-				
	Total	\$ 459.54	\$	474.73	\$	251.96	\$	241.02	\$	242.23	\$ 242.70	\$ 243.54		\$	102.85	\$	79.13	\$	72.58	\$ 66.39	\$ 66.72	\$ 67.06	\$ 67.46

2005-\$474.73

2009 - DRA - \$290.00

2010 (the beginning of the end) \$251.96 -

2018 - \$224.09 - \$220.54 - \$220.28 - \$219.08 - \$209.53 - \$208.77 - \$204.83 -

2025 - \$199.10



Site Neutrality

- From 2021 to 2022, Medicare spending increased by 5.9 percent, from \$689 billion in 2021 to \$944 billion in 2022, reaching 21 percent of total National Health Expenditures.
- The Bipartisan Budget Act of 2015 established site-neutral payments under Medicare for services received at off-campus HOPDs. However, this bill included a grandfathering provision that exempted existing off-campus HOPDs from site neutrality and did not apply to on-campus HOPDs, where many outpatient services are delivered. Hospitals exempted \$45 off campus \$150 on campus
- Section 603: Off-campus provider-based departments (PBDs) that began billing under OPPS on or after Nov. 2, 2015
- **CMS expanded the site-neutral policy** in 2019 to include clinic visits occurring at all off-campus HOPDs.
- \$30 billion over 10 years



Site of Service Reimbursement Differences

While we expect this to normalize, we have been waiting a long time now – and it won't change in 2024 – but when it does will we be ready?

			20	24				
CPT	APC	Description	MPFS		OPPS			
78452	5593	Nuclear Stress	\$ 370.84	\$	1,373.22			
93005	5733	EKG	\$ 6.69	\$	59.15			
93017	5722	Treadmill	\$ 39.11	\$	303.55			
93306	5524	Echo	\$ 133.27	\$	533.51			
93350	5524	Stress Echo	\$ 121.79	\$	533.51			
93351	5524	Stress Echo - Complete	\$ 156.43	\$	533.51			
93880	5523	Carotid U/S	\$ 157.63	\$	236.97			

Medicare pays approximately \$6,500 for the placement of a coronary stent as an outpatient in a free-standing ambulatory care facility and \$10,600 for the same procedure performed in a hospital.





Transforming Episode Accountability Model

Mandatory Model: 2026-2030

The Transforming Episode Accountability Model (TEAM) will support people with Medicare undergoing certain surgical procedures by promoting better care coordination, seamless transitions between providers, and successful recovery.

Included procedures: lower extremity joint replacement, surgical hip femur fracture treatment, spinal fusion, coronary artery bypass graft, and major bowel procedure.

	TABLE X.A07: LIST OF MANDATORY CBSAs SELECTED FOR PARTICIPATION IN TEAM
STATE	OMB CBSA 2023 Code Metropolitan or Micropolitan Statistical Area Title
AL-GA	29300 LaGrange, GA-AL
GA	10500 Albany, GA
GA	19140 Dalton, GA
GA	20060 Douglas, GA
GA	27700 Jesup, GA
GA	40660 Rome, GA
GA	42340 Savannah, GA
GA	45580 Thomaston, GA
GA	45740 Toccoa, GA
GA-AL	29300 LaGrange, GA-AL





Episode Components

Participating acute care hospitals will be responsible for

overseeing a patient's care from hospital admission or outpatient procedure through 30 days after the individual leaves the hospital, including coordination and communication between providers across all care settings and with the patient and family. An episode includes:

- Inpatient hospital services
- ► Physician services: specialists and primary care
- Outpatient therapy services
- Skilled nursing facilities
- ► Home health services
- ► Clinical laboratory services
- ▶ Durable medical equipment
- ▶ Medications (Part B drugs and biologicals)
- ► Hospice

Participants will connect the patient to a primary care provider after they leave the hospital to support continued recovery and positive long-term health outcomes.



Model Goals







CARDIOVASCULAR WORKFORCE: ACTIONABLE SOLUTIONS FOR A BRIGHTER FUTURE

Key Factors Affecting the Supply and Demand of the Cardiovascular Workforce

Long Training and Certification Pathways

Hyperspecialization

Unfavorable Work-Life Balance

Insufficient Supply of Physicians, APPs, Nurses & Allied Health Professionals



Increasingly Older and Sicker Population (Growing Patient Population)

Increasing Complexity of Cardiovascular Care

Increasing Healthcare Costs (and Decreasing Revenues)

Reduced Reimbursement



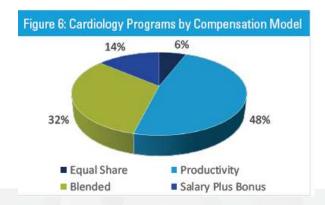
Learn more from a Cardiology article: "Workforce in Crisis: Charting the Path Forward

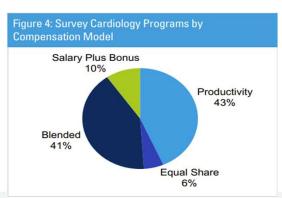


Physician Alignment

- Academia
- Independent
- Employed
- Private Equity
- Multi-state MSO's
- Unionization









Workforce Crisis: Nursing

Headwinds and tailwinds - state of the nursing profession includes COVID-19 impact



Declining workforce

510K

RN shortfall by 2030 (expected to grow due to COVID pandemic).

South and West regions of the US expected to have hire shortages.

21% of nurses

have indicated they would

oles after the pandemic

22% of nurses

10% nationally.

RN vacancy rate has grown to

transfer to non-patient care

The annual growth in RN jobs

10% of nurses

are reporting plans to

leave the profession

after the pandemic.

etire soon after the pandemic.

175,000

pre-pandemic to

per year through 2026.



The RN recruitment difficulty index has grown to

81 days

with OR and ICU nurses being the highest at

93 and 91 respectively.

However, med surg does not fall far behind at

76 days.

Clinical practice opportunities

Emerging literature regarding the growing gap for transition to practice 8% of nursing graduates are prepared for

entry level practice, dropping from 23% in

Emerging nursing literature demonstrates poor EHR usability leads to increased burnout, decreased job satisfaction and intention to leave.

RN burnout has grown as a result of the pandemic to

94% of nurses

reporting some level of burnout.

National annual turnover 2020 (with COVID impact)

18.7%

with the Southeast, North Central and South Central regions of the US having turnover at

19.2 -24.9%

(These are the regions Ascension practices within.)

Changing landscape

COVID pandemic has increased

the gap in transition to practice and

knowledge for new graduate nurses. First year turnover has grown to

30% nationally.

Increasing experience-

complexity gap

demonstrated through shift in CMI.

Call from the AACN, AONL, RWJ foundation and nurses have a population health responsibility regardless of their education level or their work assignment.



Changing economic landscape

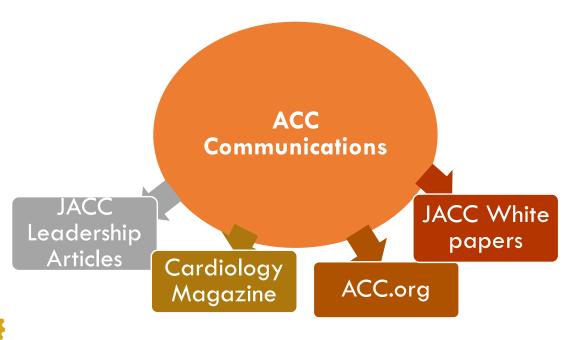
decreased interest in nursing support roles.

ASCENSION NURSING | Center of Excellence



Leveraging Insights to Continue to Communicate Efforts and Impact

Targeting Opportunities Across ALL Communications







Closed Date	Target Name	Target Location	Acquirer Name	Deal Value (\$ mm)
Jan-24	National Cardiovascular Partners	TX	Undisclosed	Undisclosed
Oct-23	Ventricle Health	NC	RA Capital Management; Waterline Ventures	Undisclosed
Oct-23	Clearwater Cardiovascular Consultants	FL	Cardiovascular Logistics (Lee Equity)	Undisclose
Sep-23	Practice of Ivor L. Geft, M.D.	CA	MDVIP	Undisclose
Sep-23	Southeast Houston Cardiology	TX	CLS Health	Undisclose
Sep-23	Daytona Heart Group	FL	Cardiovascular Associates of America (Webster Equity)	Undisclose
Sep-23	The Cardiovascular Center of Florida	FL	Cardiovascular Associates of America (Webster Equity)	Undisclose
Sep-23	Central Florida Cardiology Group	FL	QOROS (Chicago Pacific Founders)	Undisclose
Jul-23	Pivotal Healthcare Partners	FL	SCA Health (Optum)	Undisclose
Jul-23	Cardiovascular Associates	FL	Cardiovascular Associates of America (Webster Equity)	Undisclose
Jun-23	Bay Area Cardiology Associates	FL	Cardiovascular Associates of America (Webster Equity)	Undisclose
Jun-23	James River Cardiology	VA	RC Capital	Undisclose
Jun-23	Shore Heart Group	NJ	Cardiovascular Associates of America (Webster Equity)	Undisclose
May-23	Advanced Heart Group	IL	Heart & Vascular Partners (Assured Healthcare Partners)	Undisclose

May-23	Memorial Katy Cardiology Associates	TX	US Heart & Vascular (Ares Management; Rubicon Founders)	Undisclosed
May-23	US Heart and Vascular (Ares Management)	Multiple	Rubicon Founders	Undisclosed
May-23	Colorado Springs Cardiology	со	Heart & Vascular Partners (Assured Healthcare Partners)	Undisclosed
May-23	Dallas Heart & Vascular	TX	Heart & Vascular Partners (Assured Healthcare Partners)	Undisclosed
Apr-23	Novocardia (Deerfield)	Multiple	Cardiovascular Associates of America (Webster Equity)	Undisclosed
Apr-23	CardiaStream	TX	CHRISTUS Health	Undisclosed
Apr-23	HeartPlace	TX	US Heart and Vascular (Ares Management)	Undisclosed
Apr-23	First Coast Cardiovascular Institute	FL	Cardiovascular Logistics (Lee Equity)	Undisclosed
Apr-23	Heartland Cardiology	KS	US Heart and Vascular (Ares Management)	Undisclosed
Apr-23	The Cardiac and Vascular Institute	FL	Cardiovascular Associates of America (Webster Equity)	Undisclosed
Feb-23	St. John's Vein Center	FL	Pivotal Healthcare Partners (Ashlar Capital)	Undisclosed
Feb-23	Orion Medical	TX	US Heart and Vascular (Ares Management)	Undisclosed
Feb-23	Mountain View Clinic	AR	Mena Regional Health System	Undisclosed
Feb-23	Cardiovascular Institute Of Central Florida	FL	Cardiovascular Associates of America (Webster Equity)	Undisclosed
Jan-23	Cardiovascular Institute Of The South	LA	Lee Equity Partners	Undisclosed



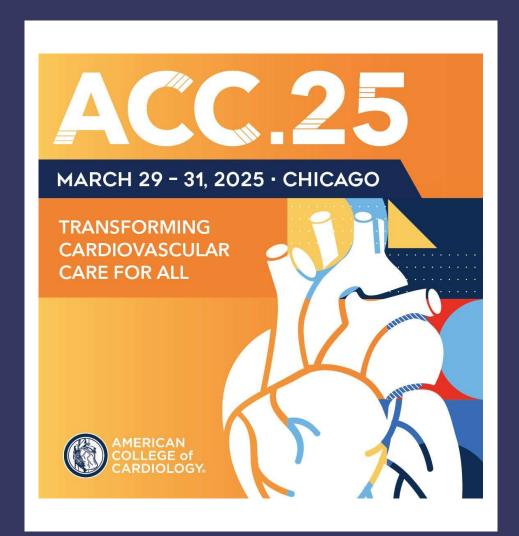


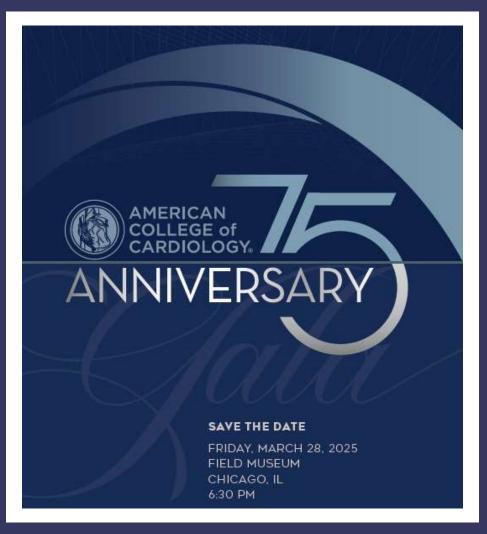
- Internal Medicine Cardiology Program
- Young Scholars
- Emerging Faculty
- Clinical trials Research: Upping Your Game
- Sandra J. Lewis Mid-Career Women's Leadership Institute
- ACC Leadership Academy
- Wael Al Mahmeed Dedication to Young Leaders
- Hani Najm Global Scholar Award
- William A. Zoghbi International Research Award

Building Leaders











Advocacy Update December 2024

Nick Morse, MBA

Division Vice President, Advocacy

American College of Cardiology





ACC Advocacy Priorities

Champion Access to Care For All

- Provide actionable data and tools to address health disparities
- . Support education and awareness among populations disproportionately affected by cardiovascular conditions



Support Clinicians in Providing Equitable Value-Based Care

- Safeguard and encourage appropriate use of advanced diagnostics, new procedures and medications that can improve quality of life
- Empower cardiovascular professionals to address health disparities and social determinants of health
- · Position clinicians to take on risk associated with maintaining a cardiovascular practice

Foster Care Transformation and Optimization

- Support shared decision-making
- . Reduce barriers to specialty referral, preventive screening and early treatment
- Expand telehealth availability
- Promote availability and use of guidelines and data at the point of care
 Encourage innovative approaches to enhance care delivery, including the
- balanced regulation of Al-enabled technologies

Bolster the Clinician Workforce Now and For the Future

- · Reduce administrative burden on clinicians to provide timely care
- · Protect clinicians and patients in clinical settings
- Build and strengthen the clinician workforce to expand equitable access





Establish Sustainable Medicare Payment Practices

- Implement policies to stabilize the payment system and better recognize the value of clinicians' work
- . Enact automatic inflationary updates to offset the 25% decrease in Medicare payments over the last 20 years · Provide greater financial stability for rural practices and those in underserved communities

The American College of Cardiology is leading the charge to transform care delivery. Learn more about the ACC's Advocacy efforts at ACC.org/Advocacy.



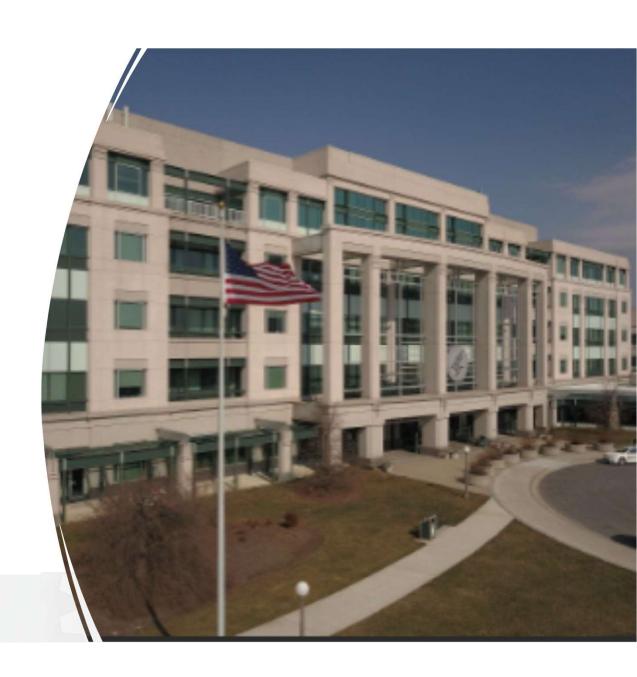




2025 OPPS/ASC Final Rule

- OPPS: Ablation codes NOT added to ASC CPL
- Some Cardiac CT codes temporarily moved to higher APC
- Finalized proposal to separately pay for any diagnostic radiopharmaceutical with a perday cost greater than \$630.





2025 PFS Final Rule

- 2025 PFS conversion factor is \$32.3465, reduced 2.83%
- G2211 Update: CMS will allow payment for the evaluation and management (E/M) visit complexity add-on code when the base E/M code is reported on the same day by the same practitioner as an annual wellness visit, vaccine administration or any Medicare Part B preventative service is performed.
- ASCVD Risk Assessment and Management G Codes: CMS finalized a proposal to create coding and payment for ASCVD risk assessment and risk management services.
- Jan. 1, 2025, telehealth originating site rules will limit patient location to rural and underserved areas legislation required to extend flexibilities.
- Two-way real-time audio-only communication can be used in some circumstances
- Through 2025: practitioners can use practice address when providing telehealth services from home; virtual direct supervision of CV rehab.



Lame Duck Wish List

- Current government funding expires December 20
- Elimination of 2025 PFS cut
 - ➤ Medicare Patient Access and Practice Stabilization Act of 2024 (H.R. 10073)
- Telehealth flexibility extension, including at-home CV rehab
 - ➤ Telehealth Modernization Act (H.R. 7623)
- Prior authorization reform
 - ➤ Improving Seniors' Timely Access to Care Act (H.R. 8702/S. 4532)
- Increase AED access
- No horrific offsets



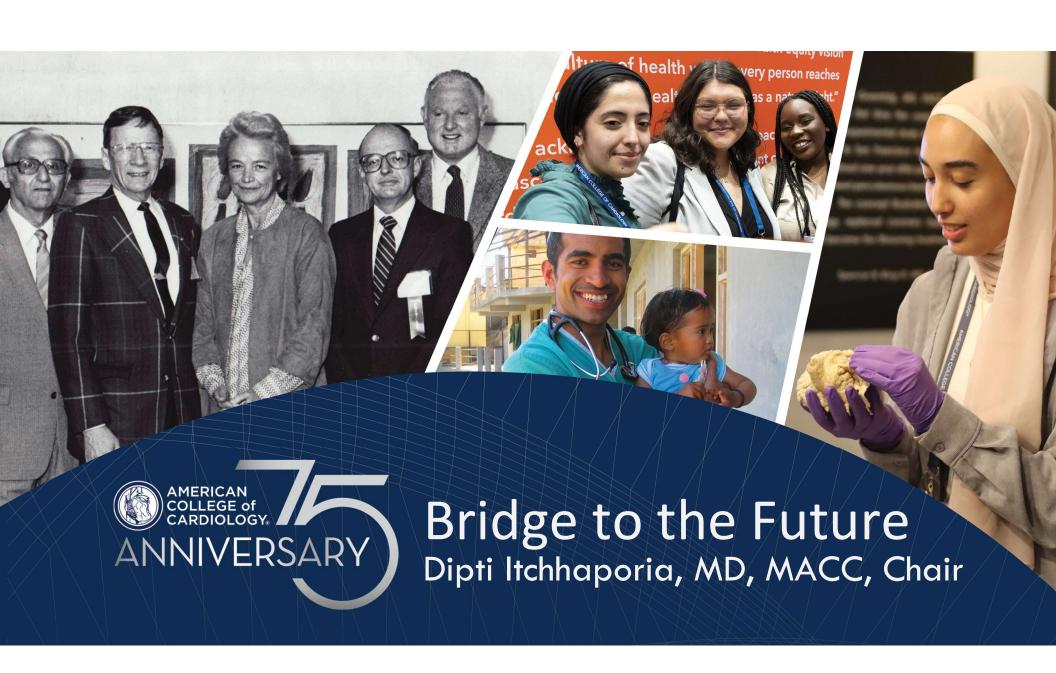


What to Watch for in 2025



- New administration nominations, confirmations, new priorities
 - HHS, CMS, FDA, CDC, NIH
- New Congress leaders, chairs, members, staff
- What are the key issues?
 - Reversing/undoing rulemaking
 - Appropriations
 - Tax cuts extension and offsets
 - Permanent telehealth flexibilities
 - Long-term Medicare/reforms/changes
 - Site neutral payment
 - PAD
 - Claims data
 - Gold carding
 - AED access







THEME: Celebrating the Past. Building a Bridge to the Future

BRIDGE TO THE FUTURE



BOLD AIM - A world in which cardiovascular disease is no longer the #1 killer globally.

Core Objective #1

Drastically reimagine how cardiology care is delivered to at-risk communities in the United States through strong implementation of a Health Equity strategy.

Core Objective #2

Tangibly diversify the cardiovascular workforce so that by the ACC 100th anniversary, cardiovascular professionals are fully representative of the patients they serve across all key demographics.

Core Objective #3

Leverage technology to improve global cardiovascular care and create a world where science, knowledge, and innovation optimize patient care and outcomes worldwide, especially in low- and middle-income countries.





Core Objective #1 Health Equity Programs

- Health Equity Education and Training
- Caring Hearts Community Initiative
- Diversity in Clinical Trial Resource Center
- Rural Cardiovascular Health Initiative
- Health Equity Focused Activities at ACC.xx

Core Objective #2 Workforce Diversification Programs

- Young Scholars & Internal Medicine
- Clinical Trial Research (CTR) & REACH
- Member Leadership Development Programs and Awards
- International Leadership Development Programs
- Fellowship Research Awards

Core Objective #3 Global & Innovative Programs

- Global Heart Attack Treatment Initiative (GHATI)
- Research Support in LMI Countries
- NCD Academy
- Chapter Section Grants



Thank You To Our Industry Supporters

Core Objective #1 Health Equity Programs

- Health Equity Education and Training
- Caring Hearts Community Initiative
- Diversity in Clinical Trial Resource Center
- Rural Cardiovascular Health Initiative
- Health Equity Focused Activities at ACC.xx

Core Objective #2 Workforce Inclusivity Pathway Programs

- Young Scholars & Internal Medicine
- Clinical Trial Research (CTR) & REACH
- Member Leadership Development Programs and Awards
- International Leadership
 Development Programs
- Fellowship Research Awards

Core Objective #3 Global & Innovative Programs

- Global Heart Attack Treatment Initiative (GHATI)
- Research Support in LMI Countries
- NCD Academy
- Chapter Section Grants



YOURIMPACT

With the support of our friends and partners, we can expand our strategic programs that were designed to help us achieve our goals. From research support in low – and middle-income regions to workforce inclusivity pathway programs and community initiatives, the ACC Foundation is funding programs that are making an impact on the cardiovascular workforce of the future and our patients.

Your Support Impacts Scientific Advancement



"ACC's Clinical Trials Research (CTR) program helped me to enhance my skills in research design, including the consideration of new analytical methods and ways to encourage representative research representation.

I was also able to leverage the experience of the other learners and the CTR leaders to expand my mentorship network and work on my career development."

– Jill Steiner, MD, MS, FACC



Your Support Holds Power



"This [SJL program] has launched my career over these two years. It's opened doors to sponsorship, mentorship and built a community of belonging for me.

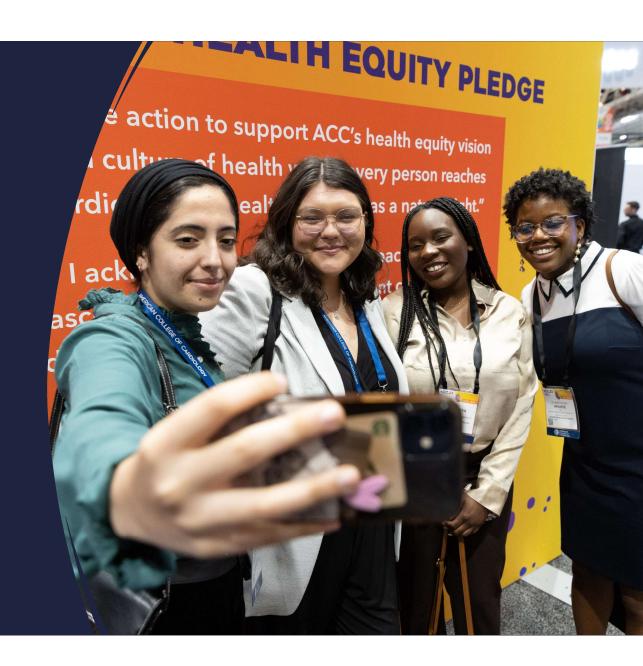
I have learned the power of philanthropy and advocacy from Sandy.

It's been a life-changing experience and helped me discover my journey to what's next."

– Modele Ogunniyi, MD, MPH, FACC



Your Support Builds a Workforce for the Future



Your Support Impacts Global Heart Health





Health System Participation



Atrium Sanger Heart and Vascular Institute
Northwell
UVA Heart and Vascular Center
Mayo Clinic Rochester
Cleveland Clinic
Mount Sinai
WashU Medicine
Brown University Health Cardiovascular Institute

THANKYOU



Together we will transform the future of cardiovascular health for all

AstraZeneca
Bayer
Cytokinetics
Johnson & Johnson
Novartis
Viatris

SEE YOU IN CHICAGO!

SAVE THE DATE

FRIDAY, MARCH 28, 2025 FIELD MUSEUM CHICAGO, IL 6:30 PM

750+ Global Members, Corporate Partners, & Other Supporters



White House Initiative on Women's Health Research

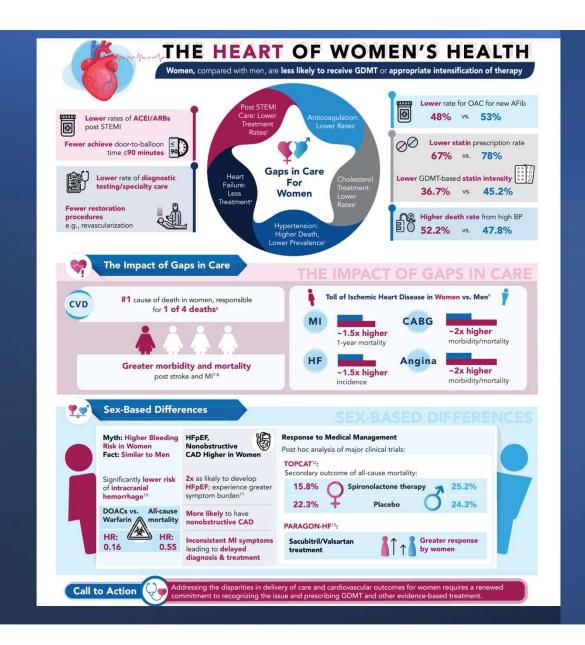
Carolyn M. Mazure, PhD



Heart Disease in Women – Historic Review and Current State of Affairs

Mary Norine Walsh, MD, MACC



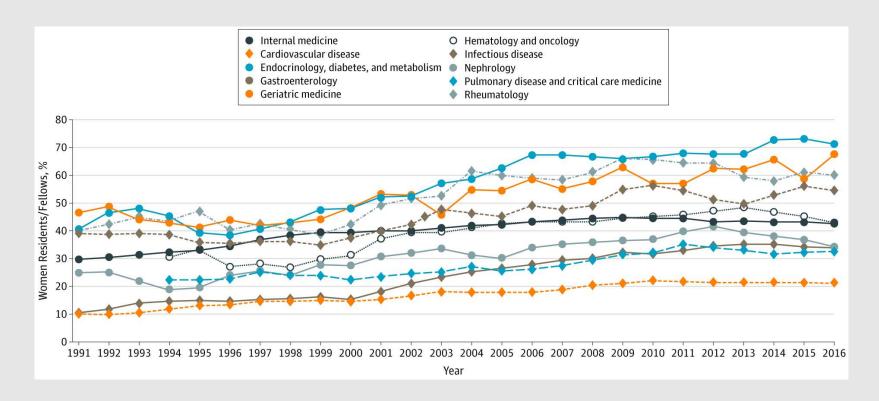


Most Women with Cardiovascular Disease are Cared for by Male Cardiologists





Changes in the Percentage of Women Internal Medicine Residents and Subspecialty Fellows Between 1991 and 2016



Stone AT, Carlson KM, Douglas PS, Morris KL, Walsh MN. Assessment of Subspecialty Choices of Men and Women in Internal Medicine From 1991 to 2016.

JAMA Intern Med. Published online September 23, 2019. doi:10.1001/jamainternmed.2019.3833

Graduate Medical Education, 2023-2024

jamanetwork.com/journals/jama/...

Good news #Cardiology! This year we are up to 29% women fellows! 16% in EP and 13% in interventional. This is progress! #ACCWIC @ACCinTouch @WomenAs1 #Ilooklikeacardiologist #TheFaceofCardiology

A Type of Degree and Specialty and Subspecialty for 2023-2024

	2023-2024	
No. of programs	13 489	
No. of residents		
Total	158 031	
PGY-1	39 700	
PGY-1 residents without prior GME	36 172	
Location of medical school or type of degree, No. (%)		
US MD	92 340 (58.4)	
International	37 109 (23.5)	
DO	28 480 (18.0)	
Canada ^a	102 (0.1)	
Specialties, No. (%)		
Programs	5792 (42.9)	
Residents	130 393 (82.5)	
Subspecialties, No. (%)		
Programs	7697 (57.1)	
Residents	27 638 (17.5)	

DG Graduate Medical Education, 2023–2024
PGV-possenduate year une instruent of concentration beyond medical sensor in

From jamanetwork.com

5:47 PM · Nov 25, 2024 from Indianapolis, IN · 16.2K Views

^a Excluded from international row because graduates of Canadian medical schools are not considered international medical graduates. Canadian medical schools are accredited by the Liaison Committee on Medical Education as are



College of Medicine
Division of Cardiovascular Medicine

Marian C. Limacher, M.D. Associate Professor of Medicine (904) 376-1611 x6324 1600 Archer Road PO Box 100277 Gaincaville, FL 32610-0277

July 18, 1994

Dear Colleague;

Thank you for agreeing to participate in the Ad Hoc Committee on Women in Cardiology. The first order of business is to determine whether a meeting for women should be conducted at the Annual Scientific Sessions in March, 1995. The Scientific Sessions Program is nearly finalized and we will need to move rapidly if a women's meeting is added to the program.

I am enclosing the evaluations from the first luncheon panel held in 1993 which utilized a discussion format with a different topic at each table. Some of the comments highlight topics that might be addressed at the 1995 or future sessions. Please give some thought as to possible topics, speakers and venues for a meeting in 1995 that we can review during our conference call on Wednesday, July 20, 2:00PM Eastern Standard Time. Because of the limited planning time available, not all members of the Committee are able to participate in a conference call before August, I will be contacting individuals not participating in the call to learn their views and update them on the content of the call. Any future meetings will certainly be planned at a convenient time to all members.

Thank you again for your participation. I look forward to working with you.

Sincerely,

MCLMO | SGE

Marian C. Limacher, M.D. Associate Professor of Medicine

MCL:ac

Enclosures

AMERICAN COLLEGE OF CARDIOLOGY WOMEN IN CARDIOLOGY

30 YEARS OF WOMEN EMPOWERMENT



1998-2002

ACCWIC became a standing committee led by Dr, Marian Limacher, MD, MACC



2005-2009

Section Chair Dr. Athena Poppas, MD. MACC



2013-2016

Section Chair Sandra J. Lewis, MD. FACC



2019-2022

Section Chair Dr. Toniya Singh, MBBS, FACC



1994

ACC Women in
Cardiology (ACCWIC)
started as as an ACC
AdHoc Committee led
by Dr. Marian Limacher
with members including
Drs. Pamela Douglas,
Kim A. Eagle, Janice B
Schwartz, Mary N.
Walsh, Wendy J. Wolf,
and Janet S. Wright



2002-2005

ACC WIC became the first ACC Section in 2004 with Dr. Mary Norine (Minnow) Walsh, MD, MACC as the first ACCWIC Section Chair



2009-2013

Section Chair Dr. Carole Warnes, MD, MACC



2016-2019

Section Chair
Dr. Claire Duvernoy,
MD. FACC



2022-present

Section Chair Dr, Gina Lundberg, MD, FACC ACC Member Sections provide specialized, topic-focused communities where members can connect with peers that share their interests, gain leadership experience and make an impact on the College — and cardiology.

Join an ACC Member Section

Academic Cardiology Member Section Geriatric Cardiology Member Section

ACC Global Hub Health Care Innovation Member Section

Adult Congenital and Pediatric Cardiology Member Section Heart Failure and Transplant Member Section

Advanced Career Professionals Member Section Imaging Member Section

Cardiac Surgery Team Member Section Interventional Member Section

Cardio-Oncology Member Section Medical Residents Member Community

Cardiovascular Management Member Section Medical Students Member Community

Cardiovascular Team Member Section Prevention of Cardiovascular Disease Member Section

Critical Care Cardiology Member Section Program Directors and Graduate Medical Educators Member Section

Early Career Professionals Member Section Reproductive Health & Cardio-Obstetrics Member Section

Electrophysiology Member Section Sports and Exercise Cardiology Member Section

Federal Cardiology Member Section Vascular Disease Member Section

Fellows in Training Member Section Women in Cardiology Member Section

Women In Cardiology Member Section

The Women in Cardiology Section of the ACC offers women cardiologists opportunities to strengthen their professional support system and skills through networking events, professional development and mentoring programs. In addition, membership and active involvement in the Section provides a training ground for developing leadership skills and understanding the governance structure and avenues to leadership within the College.

Section Mission

The mission of the Women in Cardiology Section of the ACC is:

- To enhance the careers of women cardiologists through the creation of professional development, mentoring and networking programs and through the promotion of leadership opportunities within the ACC.
- To enhance the appeal of cardiology for women residents by recommending changes in training programs and by promoting effective, efficient and diverse career opportunities.
- To encourage young women in high school, college and medical school to pursue a career in cardiology through the creation of mentoring programs and preceptorships.
- To advocate for the parity of women cardiovascular physicians, in particular, equity in salary and leadership advancement within the physician workforce.

Women in Cardiology and Cardiovascular Disease in Women are not Synonymous







Circulation: Cardiovascular Quality and Outcomes

CARDIOVASCULAR PERSPECTIVE

Cardio-Obstetrics

Team-Based Care to Improve Maternal Outcomes

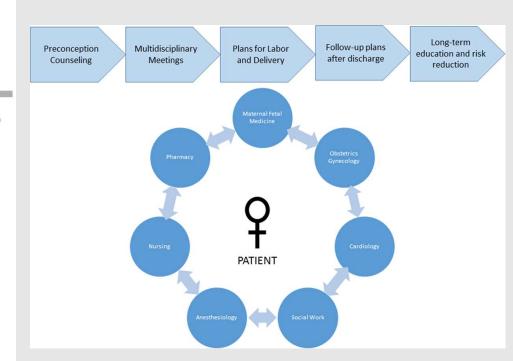
MATERNAL MORTALITY

Despite global improvements in maternal mortality, the rate of pregnancy-related deaths in the United States has been rising.¹ Pregnant women in the United States have a higher risk of death than in any other industrialized country. The reasons for this are complex. Black women have a 3 to 4× higher risk of maternal mortality than white women,² underscoring alarming trends in the racial-ethnic disparities in this country. Insufficient access to care, socioeconomic inequalities, and variable quality of care all require attention. Additionally, maternal demographics and risk factors have changed over time. At the time of pregnancy, women are older and have more chronic medical conditions, such as obesity, hypertension, and diabetes mellitus.¹ Cardiovascular disease is now a leading cause of maternal death and severe morbidity.²

State-wide maternal mortality review committees have shed light on cardiovascular-related maternal deaths. In Illinois, Briller et al³ found that of 140 maternal deaths from 2002 to 2011, more than a fifth (22%) were related to cardiovascular disease. The most common causes were related to acquired cardiovascular disease (97.1%), including cardiomyopathy (27.9%), stroke (22.9%), hypertensive disorders (12.9%), arrhythmias (10.7%), and coronary disease (9.3%). Relatively fewer deaths were related to congenital heart disease (2.9%). In California, nearly a quarter (24.9%) of the pregnancy-related deaths from 2002 to 2006 were attributed to cardiovascular disease, and two-thirds of these deaths were related to cardiomyopathy.⁴

Maternal deaths were deemed to be potentially preventable in approximately a quarter of the cases reviewed by these 2 state committees.^{3,4} Preventability was assessed by whether specific and feasible actions could have been implemented to lead to a nonfatal outcome, such as evaluating the cause of severe shortness of breath in a postpartum woman.⁴ The complex problems facing high-risk obstetric populations require a team-based approach including cardiology, maternal-fetal medicine, obstetrics, anesthesiology, and nursing.

Melinda B. Davis, MD Mary Norine Walsh, MD



Davis MB, Walsh MN. Cardio-Obstetrics. Circ Cardiovasc Qual Outcomes. 2019 Feb;12(2):e005417.

Reproductive Health & Cardio-Obstetrics Member Section

Section Announcements

+ About Us

Activities and Resources



CONNECT NOW with

Reproductive Health & Cardio-Obstetrics experts on DocMatter, the online community for ACC members.

Use the Hashtag #ACCRepOB and Follow @ACCinTouch to Join the Conversation!

Welcome to ACC's Reproductive Health & Cardio-Obstetrics Member Section!

We are so excited to announce the College has created the new Reproductive Health and Cardio-Obstetrics Member Section. Cardio-Obstetrics is a tremendous area of burgeoning growth in cardiology as it relates to clinical care, research, advocacy and interdisciplinary collaboration.

Through this Section, we hope to transform cardiovascular care and health in women worldwide and provide a grounding point for those with such shared interests in this field.



Natalie Ann Bello. MD, FACC

Chair

The creation of this Section addresses the needs and gaps in care in all domains including clinical care, education, training/mentorship, research, engagement and public policy.

The Mission of this Section is to provide members with knowledge in a structured and organized approach on the cardiovascular care of patients surrounding all aspects of pregnancy and reproductive health; create actionable and accessible knowledge for members of the College; enhance the training of FITs by encouraging incorporation of these

Join Us - Free in 2024

Join the Reproductive Health & Cardio-Obstetrics Section

Questions? Contact ACC Member Care.

topics into their didactic curriculum; and lead advocacy efforts to improve care and accessibility to care for our patients. This Mission aligns with our goal to advance the value and equity of cardiovascular care for patients' health during and around pregnancy and across the reproductive years.

ACC resources

- The ACC Cardiovascular Disease in Women Committee and Cardio-Obstetrics Work Group have:
 - published numerous scientific publications;
 - developed a virtual "Cardio-Obstetrics Essentials" course in conjunction with the College's Lifelong Learning Oversight Committee that was offered this fall for the third time;
 - supported a cardio-obstetrics journal club;
 - hosted ultiple educational webinars;
 - and collaborated with ACC state chapters and/or partner medical societies such as the American College of Obstetricians and Gynecologists, the Society for Cardiovascular Angiography and Interventions, and the American Heart Association to create educational content as well as to pro-vide a clinical community and opportunity for engagement of interested clinicians.





Advancing Heart Care Worldwide

Cardiovascular Disease in Women Committee

Leslie Cho, MD, FACC
Professor of Medicine, CCLCM
Section Head, Preventive Cardiology and Rehabilitation
Director, Women's Cardiovascular Disease Center





 \bigcirc vs. \bigcirc

Fundamental difference

- Vascular biology
- Valvular heart disease
- Unique risk factors
- Presentation

Vasculopathy of Women with CAD: Coronary Structure and Function vs. Men

- Structural
 - Macro/ Microvessels
 - Smaller size
 - Increased stiffness (fibrosis, remodeling)
 - More diffuse disease
 - Erosion > Rupture
 - Microemboli, rarefaction (drop out), disarray

- Functional
 - Macro / Microvessels
 - Endothelial dysfunction
 - Smooth muscle dysfunction (raynaud's migraines, CAS)
 - Inflammation
 - Plasma makers
 - Vasculitis (SLE)



Women Men

Aging Cardiomyopathy

Preservation of cardiac weight Reduction in cardiac weight (1 g/yr)

Preservation of myocyte number Reduction in myocyte number (64

Preservation of myocyte volume million/yr)

Constant mononucleate/binucleate

Increase in myocyte cell volume

myocytes ratio

Low apoptotic index

Increased apoptotic rate

Increase in muccute cell volume

Decreased mononucleate/binucleate

myocytes ratio

Apoptotic index 3-fold higher than

women

Decreased apoptotic rate

JACC 2010;55:1057-65

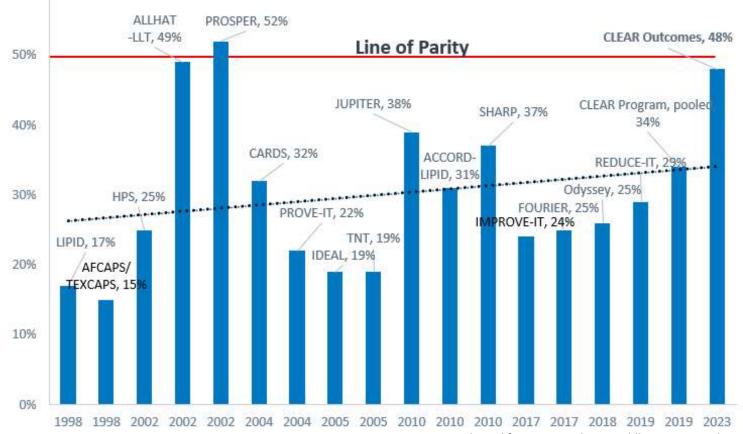


Participation Prevalence Ratio

	PPR
Acute Coronary Syndrome	0.6
Atrial Fibrillation	0.8
Coronary Artery Disease	0.6
Congestive Heart Failure	0.5
Hypertension	0.9
Pulmonary Hypertension	1.4



Inclusion of women in lipid-lowering cardiovascular outcomes trials over time



INDUSTRY

AMERICAN COLLEGE of CARDIOLOGY®

ADVISORY FORUM

Year of Publication
Adapted from: Agarwala, A., Goldberg, A. Special Considerations for Lipid-Lowering
Therapy in Women Reflecting Recent Randomized Trials. *Curr Atheroscler Rep* 23, 42
(2021).

Important Lessons

- Strong market demand
- Provides answers to gaps in care



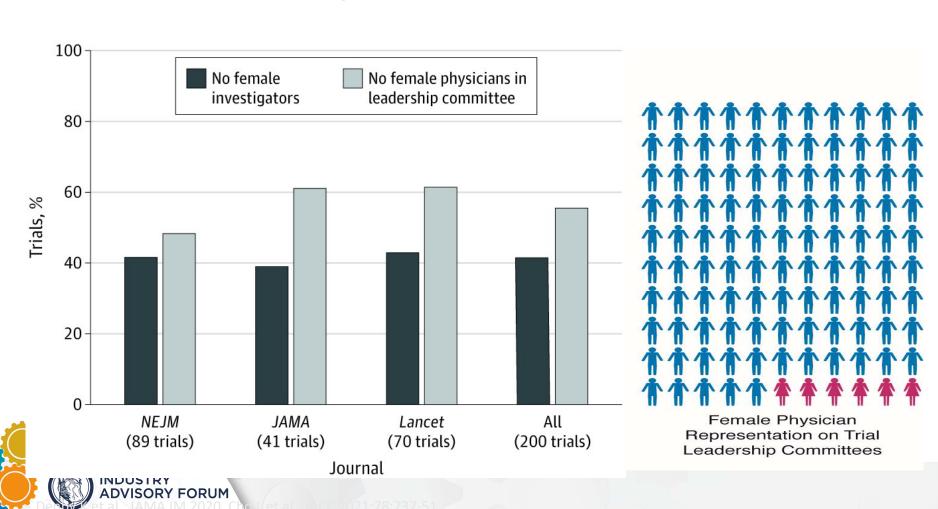
Barriers to Enrollment

- Lack of Access/ Differential Care
- Lack of awareness and trust
- Logistical barriers
- Ageism / Women of Childbearing age



Lack of Diversity in Trial Leadership

AMERICAN COLLEGE of CARDIOLOGY®



CVD in Women Committee Goals

- Foster the development of scientific investigation for those with and at risk for cardiovascular diseases wherein sex-specific differences exist or are suspected.
- Promote the development and publication of guidelines, scientific statements and white papers dealing with sex-specific differences in cardiovascular health and disease.
- Advocate for legislation determined to be beneficial for women with cardiovascular disease.
- Serve as a contact point and clearing house for all requests external to ACC involving endorsements or affiliations regarding cardiovascular disease in women.
- Form affiliations with other professional societies and patient advocacy groups with parallel interests regarding women's cardiovascular health.



CVD in Women Committee Activities

- Scientific publications dealing with sex-specific differences in cardiovascular health and disease.
- Educational sessions at ACC Annual Meetings
- Women are Not Little Men Podcast Series
- Advocated to PCORI for gender cardiac issues
- Partnered with Endocrine Society, American Association of Clinical Endocrinology, and ACOG



2015-2016

Emergence of Nonobstructive Coronary Artery Disease: A Woman's Problem and Need for Change in Definition on Angiography (JACC)

Women, Hypertension, and the Systolic Blood Pressure Intervention Trial (AJM)

Noninvasive Imaging to Evaluate Women With Stable Ischemic Heart Disease (JACC Imaging)

2017-2018

Ischemia and No Obstructive Coronary Artery Disease (INOCA): Developing Evidence-Based Therapies and Research Agenda for the Next Decade (Circulation)

Quality and Equitable Health Care Gaps for Women: Attributions to Sex Differences in Cardiovascular Medicine (JACC)

Hypertension Across a Woman's Life Cycle (JACC)



2019 - 2020

Sex Differences in Cardiovascular Disease and Cognitive Impairment: Another Health Disparity for Women? (JAHA)

Sex and Race/Ethnicity Differences in Atrial Fibrillation (JACC)

Heart failure with preserved ejection fraction: Similarities and differences between women and men (IJC)

Migraine Headache: An Under-Appreciated Risk Factor for Cardiovascular Disease in Women (JAHA)

Summary of Updated Recommendations for Primary Prevention of Cardiovascular Disease in Women (JACC)

2021

Maternal Stroke: A Call for Action (JAHA)

Does Patient-Physician Gender Concordance Influence Patient Perceptions or Outcomes? (JACC)

CVD in Pregnancy: JACC Focus Seminar (5 papers) (JACC)

Increasing Participation of Women in Cardiovascular Trials (JACC)

Cardiac Surgery in Women in the Current Era: What Are the Gaps in Care? (Circulation)

Socioeconomic Determinants of Health and Cardiovascular Outcomes in Women (JACC)



2022

Ischemia and no obstructive coronary arteries in patients with stable ischemic heart disease (IJC)

Evaluation and management of blood lipids through a woman's life cycle (AJPC)

Cardiovascular Complications of Pregnancy-Associated COVID-19 Infections (JACC)

The Utilization and Interpretation of Cardiac Biomarkers During Pregnancy (JACC)

Eliminating Disparities in Cardiovascular Disease for Black Women (JACC)

Ischemic Heart Disease in Young Women (JACC)

2023

Rethinking Menopausal Hormone Therapy: For Whom, What, When, and How Long? (Circulation)

Chronic rheumatologic disorders and cardiovascular disease risk in women (AHJ)

Cancer Treatment-Related Cardiovascular Toxicity in Gynecologic Malignancies (JACC Cardio-Oncology)

Sex Differences in Thoracic Aortic Disease and Dissection (JACC)



2024

Recommendations for the Management of High-Risk Cardiac Delivery (JACC Advances)

Cardiovascular Disease in Hispanic Women (JACC)

The Role of Psychosocial Stress on Cardiovascular Disease in Women (JACC)



What is it going to take to fix this problem?





Physicians

Industry

Regulators

Insurance

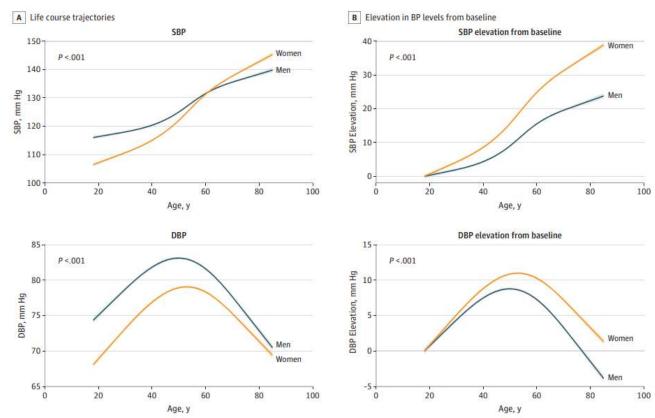


Panel 1 – Defining the Problem

- Aortic Stenosis Wayne Batchelor, MD, MHS, MBA, FACC; Director, Interventional Heart Program, Inova Health System
- Atrial Fibrillation Andrea Russo, MD, FACC; Director, Electrophysiology and Arrhythmia Services, Cooper University Health Care
- Heart Failure Selma Mohammad, MBBS, FACC; Advanced Heart Failure & Transplant Cardiologist, CHI Health Clinic Heart Institute
- Hypertension Natalie Bello, MD, MPH, FACC; Director of Hypertension Research, Smidt Heart Institute, Cedars-Sinai



Sex-Specific Trajectories of BP



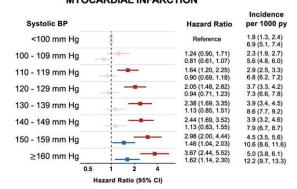


Interactions between Sex & BP on CVD Risk

CARDIOVASCULAR DISEASE

Incidence Systolic BP **Hazard Ratio** per 1000 py 6.1 (5.0, 7.1) <100 mm Hg 13.5 (10.9, 14.6) 1.25 (1.04, 1.51) 100 - 109 mm Hg 7.4 (6.7, 8.2) 1.00 (0.81, 1.23) 13.2 (11.9, 14.0) 1.45 (1.21, 1.75) 83 (76 90) 110 - 119 mm Hg 1.03 (0.84, 1.26) 13.9 (13.0, 14.6) 1.73 (1.43, 2.10) 120 - 129 mm Hg 10.2 (9.4. 11.0) 1.19 (0.96, 1.47) 15.9 (14.8, 16.7) 1.94 (1.59, 2.38) 130 - 139 mm Ha 10.1 (9.1, 11.0) 1.26 (1.02, 1.57) 16.2 (14.9, 17.2) 2.21 (1.78, 2.75) 140 - 149 mm Ha 11.0 (9.7, 12.3) 16.7 (14.9, 17.9) 2.35 (1.84, 2.99) 11.0 (9.4, 12.7) 150 - 159 mm Hg 1.79 (1.40, 2.30) 3.50 (2.74, 4.47) 13.9 (11.9, 15.9) ≥160 mm Hg 2.02 (1.55, 2.63) 0.5 Hazard Ratio (95% CI)

MYOCARDIAL INFARCTION



HEART FAILURE

Systolic BP					Hazard Ratio	Incidence per 1000 py
<100 mm Hg		į			Reference	3.3 (2.5, 4.0) 5.1 (3.7, 5.8)
100 - 109 mm Hg		1			1.16 (0.90,1.50) 1.13 (0.83,1.54)	3.8 (3.2, 4.3) 5.4 (4.7, 6.0)
110 - 119 mm Hg		-	-		1.42 (1.11,1.82) 1.02 (0.76,1.38)	4.4 (3.9, 4.9) 5.3 (4.7, 5.7)
120 - 129 mm Hg		-	-		1.77 (1.37,2.28) 1.40 (1.04,1.90)	5.8 (5.2, 6.4) 7.1 (6.4, 7.6)
130 - 139 mm Hg		-			1.97 (1.50,2.57) 1.50 (1.10,2.06)	5.5 (4.8, 6.1) 7.2 (6.4, 7.8)
140 - 149 mm Hg			-		2.18 (1.63,2.90) 1.91 (1.37,2.67)	5.7 (4.9, 6.5) 8.0 (6.8, 8.8)
150 - 159 mm Hg			=		2.70 (1.97,3.68) 2.48 (1.75,3.51)	6.4 (5.2, 7.6) 10.6 (8.7, 11.8)
≥160 mm Hg				_	3.37 (2.45,4.63) 2.74 (1.89,3.98)	6.6 (5.4, 7.8) 10.3 (8.2, 11.6)
	0.5	1	2	4		
	Haz	ard R	atio (95	% CI)		

STROKE

Systolic BP						Hazard Ratio	Incidence per 1000 py
<100 mm Hg		ė				Reference	1.5 (1.0, 2.0) 2.1 (1.1, 2.6)
100 - 109 mm Hg		-				1.28 (0.90,1.82) 1.09 (0.64,1.87)	2.1 (1.7, 2.4) 2.3 (1.8, 2.7)
110 - 119 mm Hg		÷	-			1.29 (0.91,1.84) 1.19 (0.71,2.00)	2.1 (1.8, 2.4) 2.6 (2.2, 3.0)
120 - 129 mm Hg		-	-			1.53 (1.07,2.21) 1.34 (0.79,2.26)	2.7 (2.3, 3.1) 3.0 (2.6, 3.4)
130 - 139 mm Hg		1	•			1.90 (1.29,2.78) 1.37 (0.80,2.35)	3.1 (2.6, 3.6) 3.1 (2.6, 3.6)
140 - 149 mm Hg			-	-		2.12 (1.41,3.20) 1.50 (0.85,2.64)	3.4 (2.7, 4.1) 3.2 (2.5, 3.9)
150 - 159 mm Hg			_			2.22 (1.42,3.49) 2.04 (1.14,3.65)	3.6 (2.6, 4.5) 4.5 (3.3, 5.4)
≥160 mm Hg		! _		-	_	3.59 (2.29,5.63) 2.32 (1.25,4.28)	5.5 (4.1, 6.8) 4.8 (3.4, 6.2)
0	.5	i	2	4			
	Haza	ard R	atio (95	% CI)			

Non-Significant in Men Significant in Men Non-Significant in Women Significant in Women

Ji et al. Circ. 2021



Discussion 1

- 1. What are the biggest opportunities and challenges that industry and health systems face in assuring equitable access to care in women?
- 2. Are there other key insights you have identified that are important for addressing differential treatment and outcomes for women with CVD?
- 3. Are there other organizations doing work to improve outcomes for CVD in women that would help to enhance the impact of ACC's strategy?



The ACC Thanks You For Your Partnership!





























































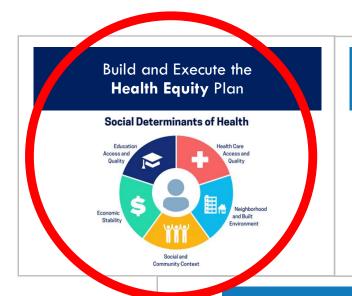
Health Equity Strategy – ACC's Approach to Addressing CVD in Women

Biykem Bozkurt, MD, PhD, FACC

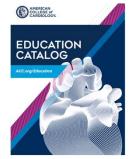
ACC Health Equity Task Force Member; Senior Dean of Faculty, Chain Chair in Cardiology, Professor of Medicine, Baylor College of Medicine



Five Strategic Initiatives Prioritized for 2024-2028



Assess and Optimize All Aspects of College's Broad Educational Portfolio to Prepare and Position ACC for the Future





Establish a Pathway for Maintaining
Continuous Cardiovascular
Clinical Competence*









Make Clinical Guidance Usable at the Point of Care





Create a Best Practices Framework for Care Delivery, Pathways, and Implementation for Health Systems in Conjunction with MedAxiom





ACC HEALTH EQUITY STRATEGY



VISION

Achieve a culture of health where every person reaches their full cardiovascular health potential as a natural right.

SOALS

S

CREATE A CULTURE OF HEALTH EQUITY IN CARDIOVASCULAR MEDICINE

Execute change management to create a mindset that health equity is an essential component of quality cardiovascular care

- Commit to cardiovascular health equity principles and develop policies for action
- Support and pursue partnerships with organizations committed to addressing health equity

PRIORITIZE HEALTH EQUITY IN ALL ACC ACTIVITIES

- Embed health equity in educational curriculum and programming and guidelines development
- Provide clinical programs and guidance to identify and evaluate disparities and social determinants of health
- Integrate health equity into compliance requirements

ELIMINATE DISPARITIES BY ENSURING EQUITABLE CARDIOVASCULAR CARE FOR ALL

- Provide actionable data and tools that empower cardiovascular professionals to address health disparities and social determinants of health
- Partner with public health and community stakeholders to ensure availability of resources for optimal patient care that eliminates disparities
- Drive innovation to address health equity

COLLEGE OF CARDIOLOGY FOUNDATION. THIS IS AN OPEN ACCESS ARTICLE UNDER

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Achieving Equitable Cardiovascular Care for All

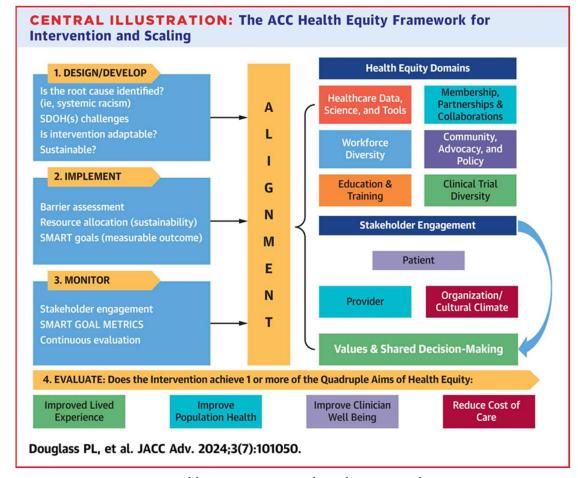


ACC Board of Trustees Health Equity Task Force Action Plan

Paul L. Douglass, MD, Dipti Itchhaporia, MD, Biykem Bozkurt, MD, Robert O. Roswell, MD, Akshay Khandelwal, MD," Quinn Capers IV, MD, Kathryn Berlacher, MD, Modele O. Ogunniyi, MD, MPH, N Alison L. Bailey, MD, Phillip D. Levy, MD, MPH, Aubrey J. Grant, MD, Jack Tocco, PsD, MPH, Angela Natcheva, Akua G. Asare, MD, a Ami B. Bhatt, MD, Jennifer H. Mieres, MD, Maghee F. Disch, MSN, Melvin R. Echols, MD

Advancements in cardiovascular (CV) disease management are notable, yet health inequities prevail, associated with increased morbidity and mortality noted among non-Hispanic African Americans in the United States. The 2002 Institute of Medicine Report revealed ongoing racial and ethnic health care disparities, spearheading a deeper un derstanding of the social determinants of health and systemic racism to develop strategies for CV health equity (HE). This article outlines the strategic HE approach of the American College of Cardiology, comprising 6 strategic equity domains: workforce pathway inclusivity, health care, data, science, and tools; education and training; me bership, partnership, and collaboration; advocacy and policy; and clinical trial diversity. The American College of Cardiology's Health Equity Task Force champions the improvement of patients' lived experiences, population health, and clinician well-being while reducing health care costs-the Quadruple Aim of Health Equity. Thus, we examine multifaceted HE interventions and provide evidence for scalable real-world interventions to promote equitable CV care. (JACC Adv 2024;3:101050) \otimes 2024 The Authors. Published by Elsevier on behalf of the American College of Cardiology Foundation. This is an open access article under the CC BY-NC-ND license (http://doi.org/10.1016/j.cense (http://do es/by-nc+nd/4.0/3.

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HE Domains

Healthcare Data, Science and Tools Membership, Partnerships and Collaborations Workforce Inclusivity Pathway

Community, Advocacy and Policy

Education and Clinical Trial Training Diversity

-Webinars
-Companion
Guides
-HE Heat Map
-HE Dashboard

-Member
Sections
- ACC Chapters
-HE Committee
-D&I Committee
-External
Partnerships
(AAIP, AMA,
AAMC)

-Young
Scholars
-IM Cardiology
-Pediatric
Cardiology
-Community
Demonstration
Projects

-Rural CV
Health
-RCHI
-CHW Program
- ACC.XX
Community
Health Event
-ACC Chapter
Collaborations
-Legislative
Efforts

-CHW Modules
-Program
Content
-Implicit Bias
Training
-ACC.xx HE Hub
-JACC
Publications

-Clinical Trials
Research (CTR)
- "REACH" Cohort
- CTR Research
Proposal
Competition
- CTR Alumni
Network
-Research
Fellowship
Awards



Highlighted Activities

- Clinical Trials Research Program
- CVD in Women and Cardio OB Member Groups
- Education and Training
 - Live courses
 - Webinars
- CardioSmart
- JACC Publications
- NCDR Data





CLINICAL RESEARCH



CLINICAL TRIALS RESEARCH: UPPING YOUR GAME (APPLY NOW)



Clinical studies test whether a new medicine, device, procedure or vaccine:

✓ Is safe

Works

Hospitals

YOU'LL FIND THEM AT

Universities

Compare new vs. current treatments

✓ Discover ways to prevent and detect diseases

Cardiology offices



As a volunteer in a study, you could help researchers

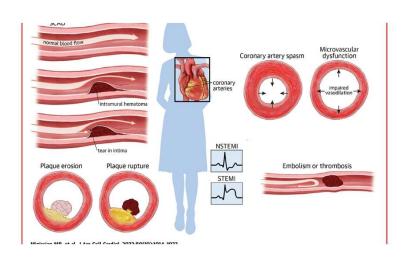


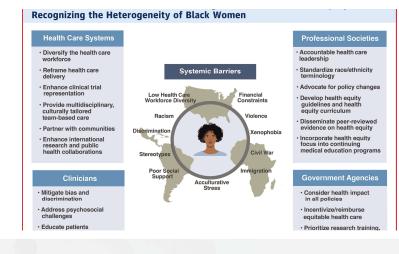


ADVISORY FORUM

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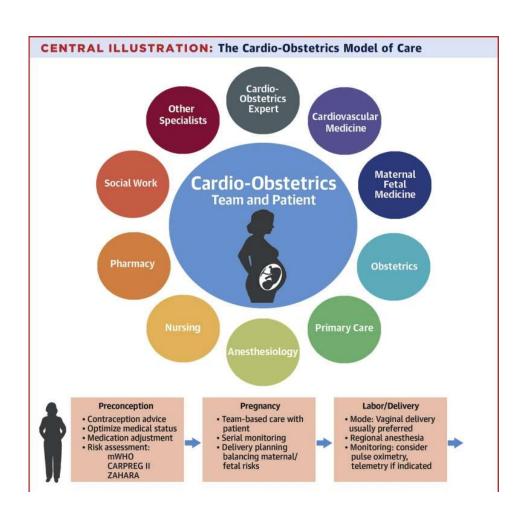
ACC CVD in Women Committee







ACC Cardio-Obstetrics Work Group







Connect. Share. Support.

Women and Heart Disease

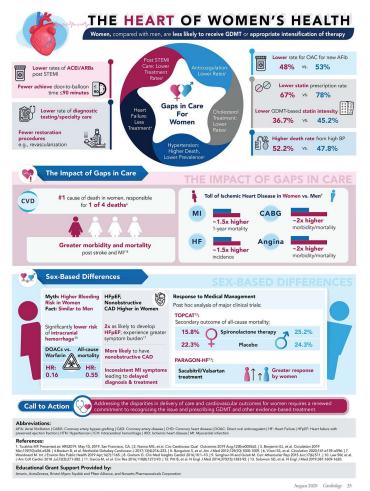






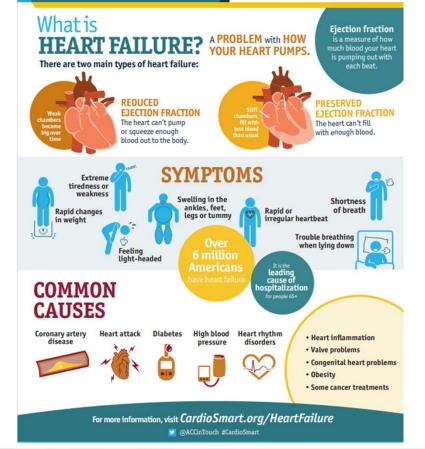


CardioSmart.org/Women



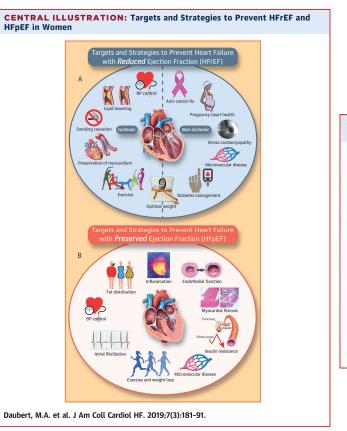
HEART FAILURE

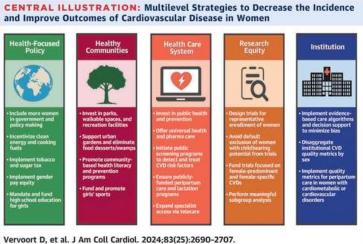






JACC Journals







ACC's Additional Strategies CVD in Women

Awareness and Education:

•Raising awareness about the fact that CVD is the leading cause of death among women. Includes educating both women and healthcare professionals

Tailored Risk Assessment:

 Promote the use of risk models that consider the specific CV risks women face.
 Pregnancy-related conditions (e.g., gestational diabetes, preeclampsia) and menopause-related changes can significantly influence CVD risk in women.

Advocacy for Gender-Specific Research:

•Support more genderspecific cardiovascular research to better understand the biological, social, and behavioral factors that contribute to heart disease in women.

Clinical Guidelines:

 Lead updated clinical guidelines that address CVD in women.

Prevention and Lifestyle Interventions:

 Encourage preventive measures specific to women, including lifestyle modifications such as diet, exercise, and smoking cessation.

Support for Diverse Populations

- •Acknowledge that women from different racial and ethnic backgrounds may experience CVD differently. Advocate for a more inclusive approach in diagnosing and treating heart disease, particularly in underrepresented populations.
- Ensure that women receive equitable and effective care to reduce the burden of CVD



Health Equity and ACC Quality Solutions

Ty Gluckman, MD, FACC



NCDR and ACC Accreditation Services are part of the effort focused on taking action to address health disparities...

- Actionable CVD health care data, science and tools to address health disparities/SDOH
- Embed health equity in College's education and training
- Establish health equity interventions with membership and collaborations with external partners
- Advocacy and policy to increase awareness of CVD-related health equity issues

...and can play a role in supporting Advocacy efforts to inform policy

A specific challenge that ACC Chapter Leadership can help solve for NCDR and Accreditation Services



NCDR 2024-2028 STRATEGIC PLAN

Mission: To improve patient care & heart health for all through trusted, real-world evidence.

Vision: A world where NCDR advances patient care, outcomes, & value through science, knowledge & innovation.

1. Enhance Relevance & Experience



1.1. Demonstrate ROI & NCDR's Value through Data & Programs



1.2. Enhance Insights & Time to Insights



1.3. Ease the Participation Effort



1.4. Build a Culture of CV Quality & Clinician Agency/Engagement



1.5. Understand Market & Customer Needs

2. Support the Delivery of High-Quality, High-Value, Equitable Care



2.1. Deliver Value-Focused QI Offerings (e.g., Campaigns, Tools, Education, Reimbursement)



2.2. Support Health Equity Initiatives for Customers (Industry, Hospitals, Payers)





3.1. Provide New Registry Offerings (e.g., ASCs, Non-Procedural)



3.2. Harness NCDR Data Beyond the "Core" Offering to Support Sustainability & Growth



3.3. Leverage Data Science & Expand the Research & Analytics Portfolio



2.3. Enhance the View of Patient-Centered Care & Delivery

4. Optimize Tech & Operations



4.1. Optimize Tech Infrastructure, Performance, & Data Quality



4.2. Improve Efficiency, Consistency, & Flexibility of Operations



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NCDR 2024-2028 STRATEGIC PLAN

GOAL 2. SUPPORT THE DELIVERY OF HIGH-QUALITY, HIGH-VALUE, EQUITABLE CARE

STRATEGIES & INITIATIVES

2.1. Deliver Value-Focused QI Offerings (e.g., Campaigns, Tools, Education, Reimbursement)

- 2.1.1. Evolve Quality Summit to be the Dominant CV Quality Event as a Part of ACC's Educational Portfolio
- 2.1.2. Enhance Online Learning Experience, Education Access, and Resources to Improve Participant QI and Registry Knowledge
- 2.1.3. Build Opportunities to Enhance Collaboration to Foster Stronger Participant Engagement within the NCDR Community
- 2.1.4. Deliver Meaningful Quality-Focused Resources & Campaigns (e.g., Clinicians, Payers, Hospitals, ASCs, Systems)

2.2. Support Health Equity Initiatives for Customers (Industry, Facilities, Payers)

- 2.2.1. Deliver Data-Driven Insights to Facilities/Health Systems to Support Improvements in Equitable Care Delivery
- 2.2.2. Align Data Insights to Regulatory Requirements (Payers, States, etc.)
- 2.2.3. Identify Implementation-Ready Facilities / Populations to Support External Equitable Care Programs
- 2.2.4. Support Diversification Efforts to Facilitate Clinical Discovery for Medical Device & Pharma
- 2.2.5. Share Health Equity Insights from NCDR Data Publicly

2.3. Enhance the View of Patient-Centered Care & Delivery

- 2.3.1. Develop a Patient-Centered View / Scorecard for Data (e.g., Quality, Safety)
- 2.3.2. Align NCDR Patient-Centered View with External Policy Requirements & Partner with Advocacy to Shape Adoption
- 2.3.3. Enhance Depth & Breadth of NCDR Data Through Partnerships & Sources



NCDR Year 1 Strategic Update on HE – Phase 1(a)

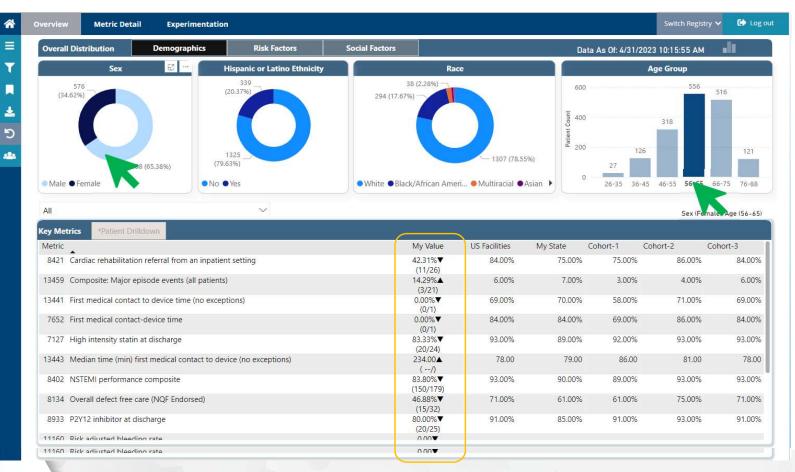
Initial focus is on leveraging existing data in NCDR registries:

Patient Demographics

INDUSTRY

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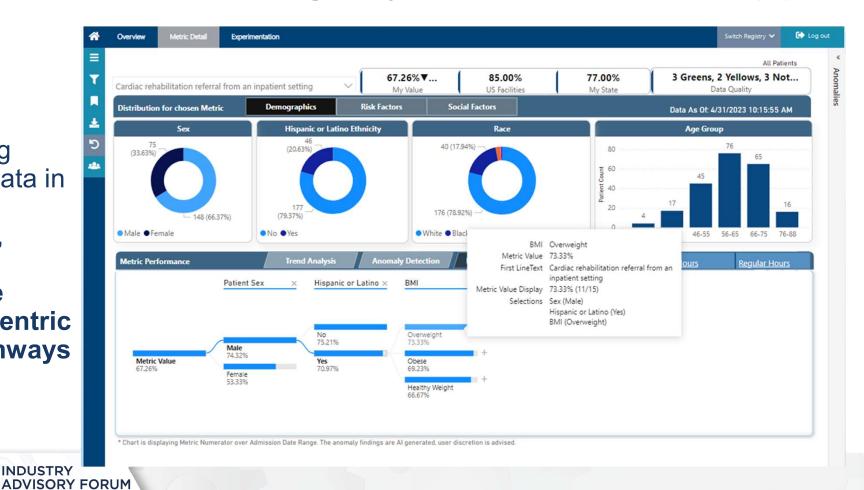


Prototype Only – Not for Distribution – NCDR Optimization Platform

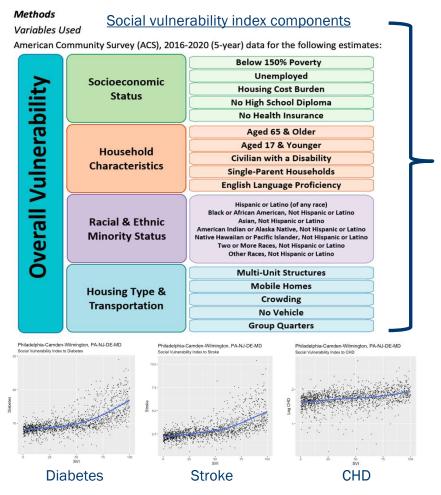
NCDR Year 1 Strategic Update on HE – Phase 1(a)

And by leveraging existing data in NCDR registries, further delineate patient-centric care pathways

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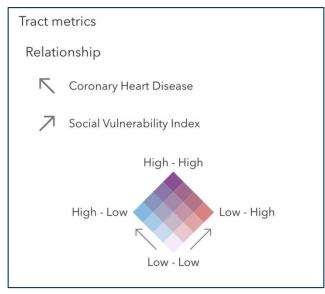


Phase 2 efforts will focus on aligning NCDR with ACC HE analytic efforts using external available data sources

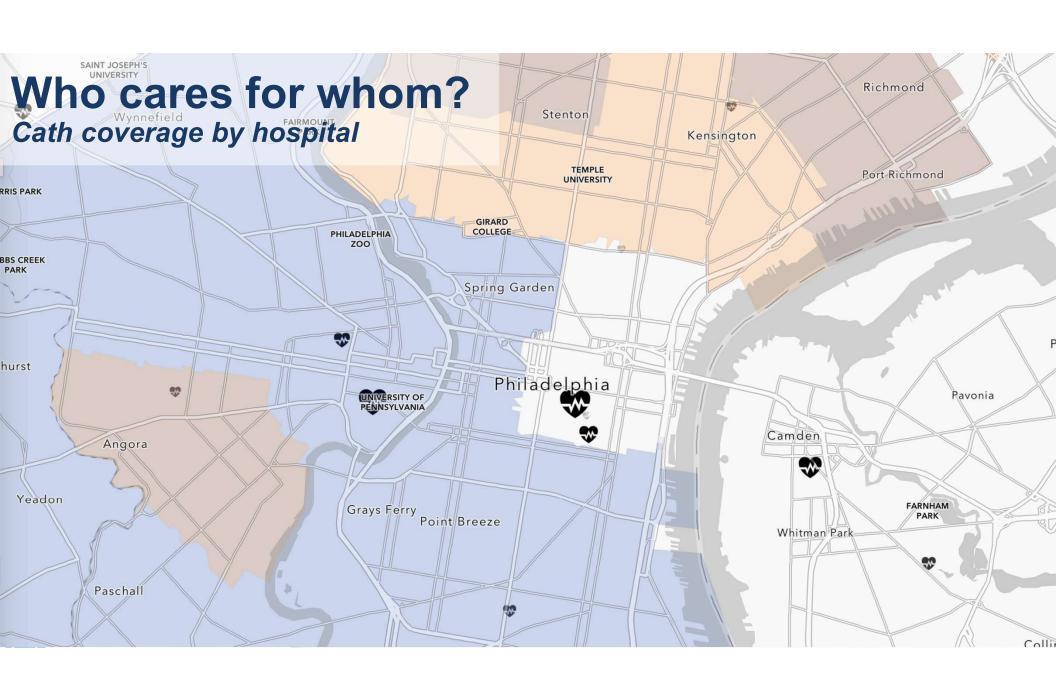




Social vulnerability vs. CHD prevalence







ACC Advocacy Priorities

- Bolster the Clinician Workforce Now and for the Future
- Establish Sustainable Medicare Payment Practices
- Support Clinicians in Providing Equitable Value-Based Care
- Champion Access to Care for All
- Foster Care Transformation and Optimization

NCDR & Accred Services Alignment Tracking Scorecard



Federal Policy

CMS – Transition to MVPs; APMs e.g., BPCI-A AHRQ – Annual Health Disparities Report



Commercial Payer

Utilization of NCDR data e.g., BCBSA, Elevance



State Policy

50 states + 2 territories X legislative & regulatory changes



ACC Accreditation Services works directly with CV teams to provide heart care information to local communities

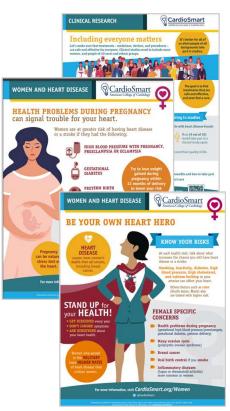
Built
around the
Early Heart
Attack Care
awareness
& activation
program...



WEICONE TO LINE WILL AND THE STATE OF THE ST

...ACC field staff work with CV care teams nation-wide to bring vital CV care information into many local communities...

...and this
program is
being adapted
to new CV
topic as well as
for specific
populations as
part of ACC's
efforts to
address CV
health
disparities





Panel 2 – Gender Disparities in Care: What Can We Do About it?

- Addressing gender disparities in AI Demilade A. Adedinsewo, MD, MPH, FACC;
 Assistant Professor of Medicine, Mayo Clinic College of Medicine and Science
- Precision medicine for women with CVD Michael Honigberg, MD, FACC;
 Cardiologist-investigator, Massachusetts General Hospital
- Evidence generation Erica Spatz, MD, MHS, FACC; Director, Preventive Cardiovascular Health Program, Yale Heart and Vascular Center
- Evidence dissemination efforts Candice Silversides, MD, FACC; Clinician Investigator, Toronto General Hospital Research Institute



Discussion 2

- 1. How does CVD in women fit into your organization's overarching health equity strategy?
- 2. What data is most critical to advancing more equitable prevention and treatment of CVD in women?
- 3. What types of implementation programs would be most effective to help drive real change for CVD in women over the next 5 years?



The ACC Thanks You For Your Partnership!





























































Thank You to our IAF Work Group Members

Mary Norine Walsh, MD, MACC- CHAIR

Paul Casale, MD, MACC

Paul Douglass, MD, MACC

Ty Gluckman, MD, FACC

Jennifer Silva, MD, FACC





Welcoming New IAF Chair-Edward Fry, MD, MACC



