FACTS
Cardiovascular Disease: Women’s No. 1 Health Threat

OVERVIEW
The facts are both startling and alarming. Cardiovascular disease (CVD) and stroke are the No. 1 cause of death in American women, claiming nearly 400,000 lives each year, or about one death each minute.\(^1\) CVD kills approximately the same number of women each year as cancer, chronic lower respiratory disease and diabetes combined.\(^1,2\) In 2013, about one in 31 female deaths was from breast cancer, but one in three was from cardiovascular disease.\(^1,2\) Unfortunately, the statistics are even worse when race and age are considered. The prevalence of CVD among African-American women (48%) is much higher than among Caucasian women (32%),\(^1,3\) and women age 45 and older are less likely than men of that age group – 74% vs. 81% – to survive a year after their first heart attack.\(^1\) And although coronary heart disease death rates have been declining overall, the rates for women aged 35-54 have been increasing.\(^4\) In women, heart disease is too often a silent killer – nearly two-thirds of women who died suddenly had no previous symptoms.\(^1\)

CVD is largely preventable. A recent study found that nearly 75% of coronary heart disease cases in women can be prevented with better lifestyle choices, such as not smoking, exercising, and eating a healthy diet.\(^5\) This study also found that women who led healthy lifestyles in their young adult years were 92% less likely to have a heart attack, compared to women who had none of the six healthy habits.\(^5\) In another study analyzing more than 161,000 women participating in the Women’s Health Initiative, 83% of the women were either classified as “high risk” or “at risk” for CVD and an additional 13% of the women lacked risk factors for CVD but did not adhere to a healthy lifestyle.\(^6\) But prevention is hindered by the fact that many women and their health care providers don’t realize that CVD is a woman’s No. 1 health threat.\(^7\) The American Heart Association (AHA) is working to close this knowledge gap through education and advocacy.

RAISING AWARENESS
A 2012 survey conducted by the AHA found that 44% of women were unaware that heart disease is the leading cause of death among women, although awareness has increased by 30% since 1997.\(^8\) In addition, women of color and of low socioeconomic status are disproportionately affected by coronary heart disease;\(^1\) the death rate was about 25% higher for black women than for white women in 2013.\(^2\) However, only 36% of black women and 34% of Hispanic women know that heart disease is their leading cause of death, compared to 65% of white women.\(^8\)

Further, women of higher CVD risk have less knowledge of heart attack symptoms,\(^9\) and only 65% of women said the first thing they would do if they thought they were having a heart attack was to call 9-1-1.\(^\text{Error! Bookmark not defined.}\) Unfortunately, this lack of awareness extends to women’s health care providers, often resulting in less aggressive and sophisticated diagnosis and treatment, with worse outcomes.\(^10,11\)

GENDER DIFFERENCES IN CVD
Researchers have learned that gender differences play an important role in the prevention, diagnosis, and treatment of CVD. Heart attack symptoms may be different in women than in men\(^12\) and women may also respond differently to cardiac medications.

- Although chest pain is the most common heart attack warning sign in both men and women, women may be less likely to report chest pain during a heart attack and more likely to report other symptoms, often resulting in misdiagnosis and delays in treatment.\(^13\)
- Women are less likely than men to receive care within benchmark times for electrocardiography.\(^14\)
- Women tend to develop CVD later in life than men, and their outcomes are often worse.\(^1\)
- Women smokers die of a heart attack caused by smoking earlier than men. Women who smoke are more than twice as likely to die of sudden cardiac death.\(^15\)
DIAGNOSIS AND TREATMENT DISPARITIES

Women are less likely than men to receive aggressive diagnosis and treatment for CVD.

- Although women are as likely as men to have heart failure, they have higher mortality rates.\(^1\) And while they’re equally likely to benefit from advanced therapies, women are less likely to be referred for these therapies and if referred, receive them at a later stage.\(^1\)

- Among Medicare patients, men are two to three times more likely than women to receive an implantable cardioverter-defibrillator for the prevention of sudden cardiac death.\(^2\)

- Only about 33% of all percutaneous coronary interventions were performed on women in 2010.\(^1\)

- Women are less likely to be referred to cardiac rehabilitation (CR), even though women who complete CR receive a greater benefit, compared to men.\(^3\)

- One in 6 women (about 16 million women) between the ages of 18 and 64 are uninsured.\(^4\) Uninsured women are more likely to have inadequate access to care, get a lower standard of care when they are in the health system, and have poorer health outcomes.

- Women are more likely than men to have forgone needed health care due to cost.\(^5\)

THE ASSOCIATION ADVOCATES

The nation has made remarkable progress in reducing the overall rates of death and disability from CVD in men. Realizing a comparable level of improvement for women requires the concerted efforts of everyone.

- The AHA applauds the Food and Drug Administration’s Action Plan to Enhance the Collection and Availability of Demographic Subgroup Data, which was required by Congress as a result of the association’s work on the HEART for Women Act. The AHA is now working to monitor and ensure implementation of the 27 steps FDA proposes in the Action Plan to improve the quality and accessibility of subgroup data.

- The AHA supports maintaining funding for the WISEWOMAN program, which provides free CVD screening and lifestyle counseling to low-income uninsured or under-insured women.

- AHA supports legislation to address barriers to cardiac rehabilitation for women.

- AHA supports requiring greater use of female cells, tissues, and animals in basic research supported by the National Institutes of Health.

- AHA supports improved reporting of health care data by sex, race, and ethnicity.

- AHA is working to implement provisions of the Affordable Care Act that will make health insurance more accessible and affordable for women as well as men.

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3 National Center for Health Statistics (NCHS) and National Heart, Lung, and Blood Institute. National Health and Nutrition Examination Survey 2009 to 2012.
21 Zeehseel, R et al. Cardiac Resynchronization Therapy in Women Versus Men Observational Comparative Effectiveness Study From the National Cardiovascular Data Registry. Circulation. 2015. Cardiovascular Quality and Outcomes 8.2 supp 1: S4-S11.