The Cardiovascular State of the Union
Confronting Healthcare Disparities

Robert O. Bonow, MD; Augustus O. Grant, MD, PhD; Alice K. Jacobs, MD

As we reach the midpoint of the first decade of the twenty-first century, we are also at the midpoint in the timeline of the American Heart Association (AHA) strategic plan to reduce coronary heart disease, stroke, and risk by 25% by the year 2010.1,2 Encouraging evidence demonstrates important gains toward that goal, with decreases in coronary heart disease and stroke mortality, as well as reductions in certain risk factors such as cigarette consumption and untreated hypercholesterolemia. Still, troubling evidence indicates that other ominous risk factors—physical inactivity, overweight and obesity, diabetes, and hypertension—are on the rise,3 especially among adolescents and young adults, and these may contribute to the next wave of the cardiovascular epidemic. And there is undeniable evidence that not all Americans have shared equally in the benefits of these gains in cardiovascular outcomes. Individuals in specific subgroups defined by race, ethnicity, socioeconomic status, and geography have a disproportionate burden of myocardial infarction, heart failure, stroke, and other cardiovascular events. These individuals also have a worse outcome after these events, including higher mortality rates, and a higher prevalence of unrecognized and untreated risk factors places them at greater likelihood of experiencing these events. Differences such as these arise not only from disparities in access to care and quality of care but also from disparities in awareness and access to knowledge.

Disparities in cardiovascular prevention, diagnosis, treatment, and outcomes have been documented in a number of publications from the US Department of Health and Human Services (DHHS),4–6 the Institute of Medicine,7 and the Kaiser Family Foundation,8 and reports of continuing racial and ethnic disparities appear regularly in cardiovascular scientific journals.9,10 If this unacceptable situation fails to be rectified, it is unlikely that the AHA’s 2010 goals or the DHHS Healthy People 2010 goals can be achieved.

In the autumn of 2003, the AHA convened a 3-day meeting to discuss the current understanding of the scientific basis of cardiovascular healthcare disparities and to assist the Association in formulating the next phase of a scientific, grammatic, and advocacy agendas to address these issues. In addition to attendees representing the basic, clinical, population, and social sciences, stakeholder organizations attending the meeting included the National Institutes of Health, the Centers for Disease Control and Prevention, the Association of Black Cardiologists, the National Medical Association, the International Society on Hypertension in Blacks, the National Council of La Raza, the National Association for the Advancement of Colored People, and The Robert Wood Johnson Foundation. The Executive Summary of the meeting in this issue of Circulation11 provides a number of key research, advocacy, and educational recommendations to aid in the long-term goal of eradicating healthcare disparities. Another objective of the meeting planners was the publication of this issue of Circulation, which is dedicated to research and clinical studies in cardiovascular disparities, with the goals of raising further awareness of the importance of this topic within the scientific community and demonstrating the high priority the AHA assigns to the elimination of healthcare disparities.

Several of the reports in the present issue of Circulation add to the growing mass of data confirming that cardiovascular healthcare disparities are deeply rooted and pervasive in our society. Sonel and the CRUSADE (Can Rapid Risk Stratification of Unstable Angina Patients Suppress Adverse Outcomes With Early Implementation of the ACC/AHA Guidelines?) investigators12 substantiate the findings of earlier studies of myocardial infarction (MI) by reporting that African American patients with acute MI, although younger than white patients, have a greater risk factor burden and are less likely to receive many evidence-based treatments, particularly treatments that are newer or more costly. Similarly, Sabatine and the TIMI investigators13 report that nonwhite patients with non–ST-elevation acute coronary syndromes (ACS) are at greater risk of death, MI, or rehospitalization for ACS and are less likely to undergo angiography or percutaneous coronary intervention as compared with white patients. These studies add to voluminous data on the underutilization of evidence-based treatments in minority patients with ACS.7,8 It is hoped that ongoing hospital-based national quality improvement programs, such as Get With the Guidelines,14 will help to level the playing field for all patients hospitalized with ACS and acute MI. This will remain a challenge, however, in patients with more chronic forms or coronary artery disease, inasmuch as data continue to show disparities in medical management and secondary prevention. Kaul et al15 report a lower utilization of revascularization procedures in black than in white patients, which translates into higher rates of angina and lower mental health and emotional health scores. Moreover, Konety et al16 provide

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The current situation calls for constant surveillance; for renewed efforts to increase awareness of health disparities among medical professionals, the public, and legislators; and for the design and implementation of effective interventions to reverse these troubling trends. One example is the community-based multiple risk factor intervention program discussed by Becker et al.23 Another is the faith-based Search Your Heart program of the AHA,24 which is targeted to African American and Hispanic communities and which has been implemented nationwide.

Another component of the solution, but one that is also difficult to deliver, is the development of a more diverse and more culturally competent cardiovascular workforce. Currently, the supply of minority healthcare professionals, especially cardiovascular specialists, is inadequate to meet the demand, and the pipeline of future minority doctors and nurses is nearly empty. Greater efforts to stimulate the brightest young people to pursue careers in biomedical science are required.

Recommendations for a strategic framework to eliminate cardiovascular disparities are articulated by Dr George Mensah.25 His proposed strategic imperatives to eliminate disparities in cardiovascular health call on strong partnerships at the community and state level based on sound clinical, population, and public health science. We support this call to action. As pointed out in the Guiding Principle for Improving Minority Health from the Centers for Disease Control and Prevention, “The future health of the nation will be determined to a large part by how effectively we work with communities to reduce and eliminate health disparities between non-minority and minority populations experiencing disproportionate burdens of disease, disability, and premature death.”26 The AHA guide for improving cardiovascular health at the community level27 could serve as a template to begin implementing changes in at-risk communities. Important steps include exercise facilities that are safe and secure, supermarkets that provide fresh fruits and vegetables of comparable quality to those in more affluent communities, elimination of cigarette advertising in minority neighborhoods, and schools that provide physical education and healthy lunches, to name a few.

The underlying causes for healthcare disparities are deeply rooted in our society and are not merely medical issues. Thus, healthcare professionals and scientists alone cannot solve them. But the community of medicine and science, when challenged and mobilized, can be a powerful force that can help to implement change through education, research, and advocacy.

We commend the editors of Circulation for publishing this special issue dedicated to such an important area of cardiovascular health and disease, and Dr Emelia Benjamin in particular for her editorial efforts in selecting the articles that cover the full spectrum of the disparity landscape. We hope the information contained in these excellent articles will generate considerable thought, discussion, and fruitful debate.

References


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