A Presidential Advisory From the American Heart Association

Workplace Wellness Recognition for Optimizing Workplace Health

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Abstract—The workplace is an important setting for promoting cardiovascular health and cardiovascular disease and stroke prevention in the United States. Well-designed, comprehensive workplace wellness programs have the potential to improve cardiovascular health and to reduce mortality, morbidity, and disability resulting from cardiovascular disease and stroke. Nevertheless, widespread implementation of comprehensive workplace wellness programs is lacking, and program composition and quality vary. Several organizations provide worksite wellness recognition programs; however, there is variation in recognition criteria, and they do not specifically focus on cardiovascular disease and stroke prevention. Although there is limited evidence to suggest that company performance on employer health management scorecards is associated with favorable healthcare cost trends, these data are not currently robust, and further evaluation is needed. As a recognized national leader in evidence-based guidelines, care systems, and quality programs, the American Heart Association/American Stroke Association is uniquely positioned and committed to promoting the adoption of comprehensive workplace wellness programs, as well as improving program quality and workforce health outcomes. As part of its commitment to improve the cardiovascular health of all Americans, the American Heart Association/American Stroke Association will promote science-based best practices for comprehensive workplace wellness programs and establish benchmarks for a national workplace wellness recognition program to assist employers in applying the best systems and strategies for optimal programming. The recognition program will integrate identification of a workplace culture of health and achievement of rigorous standards for cardiovascular health based on Life’s Simple 7 metrics. In addition, the American Heart Association/American Stroke Association will develop resources that assist employers in meeting these rigorous standards, facilitating access to high-quality comprehensive workplace wellness programs for both employees and dependents, and fostering innovation and additional research. (Circulation. 2015;131:XXX-XXX. DOI: 10.1161/CIR.0000000000000206.)

Key Words: AHA Scientific Statements cardiovascular system exercise health nutritional status prevention and control quality assurance, health care smoking cessation weight loss

There are an estimated 155 million working-age, largely employed, adults in the United States,1,2 which creates a large captive population that can potentially benefit from ongoing engagement with respect to health and wellness. Therefore, the workplace is an important setting for cardiovascular disease (CVD) and stroke risk assessment and prevention.3–5 Despite the potential for implementing broad primary and secondary prevention interventions, a 2004 survey estimated that only 6.9% of US employers offered comprehensive workplace wellness programs (CWWPs).6 Although a...
contemporary survey found that ≈77% of employers, including all large employers, reported offering workplace wellness programs, definitions of wellness programs vary, and there is a lack of recent evidence of the prevalence of comprehensive programs. To be considered comprehensive, programs must have all 5 elements described by Healthy People 2010: health education, supportive social and physical environments, integration into other organizational initiatives, linkage to other related programs, such as employee health and safety programs, and wellness screenings. Thus, CWWPs have the potential to improve health behaviors at the individual level and to enable structural change at the organizational level to bring about a healthy workplace and workforce. However, the presence of a workplace wellness program does not guarantee its effectiveness, and many programs may be ineffective because of poor design, implementation, and evaluation.

To realize the full potential of workplace wellness programs, there is a need to develop, implement, disseminate, and sustain high-quality models, that is, CWWPs. Several employer health management checklists or “scorecards” and workplace wellness recognition programs have been developed to improve organizational accountability for employee health and wellness. However, none of the currently available program assessment models are specifically focused on ideal cardiovascular health (CVH), which is imperative from a population health and healthcare economics standpoint. Furthermore, there is limited scientific evidence related to the correlations among different scorecards and recognition systems, program quality, and improvements in employee health over time.

The American Heart Association (AHA)/American Stroke Association (ASA) is uniquely positioned as a national professional organization that is focused on the prevention and treatment of CVD and stroke to play an important role in defining and increasing the adoption of CWWPs. In fact, a key strategic impact goal for the AHA/ASA is to improve the CVH of all Americans by 20% while reducing deaths resulting from CVD and stroke by 20% by the year 2020. Although achievement of these goals requires a life-course approach beginning in childhood, focusing on effective health improvement strategies with working-age adults in the workplace setting is a vital part of the continuum. Recognizing the integral role that workplace wellness plays in achieving the 2020 impact goal, the AHA/ASA is invested in leading efforts to ensure that standardized, high-quality, and thus effective programming is available to employees. A key aspect of increasing the effectiveness of CWWPs is establishing broadly adopted measures and benchmarks that can be used to guide quality assessment and improvement. The objectives of this advisory are to assess the state of widely used scorecards and recognition programs, to make recommendations for an AHA/ASA national workplace wellness recognition program focused on CVH and CVD/stroke prevention, and to describe how the AHA/ASA programs would be differentiated from and provide incremental value to current recognition programs.

**Background**

Despite impressive reductions in mortality from CVD and stroke as a result of improved prevention and treatment strategies, these 2 conditions remain the first and fifth leading causes of death in the United States, respectively. An estimated 730,000 people die of heart disease and stroke each year, which represents 29% of all deaths in the United States. Substantial disparities in mortality and CVD incidence by race-ethnicity have been documented, with a higher burden among blacks and Hispanics. Furthermore, the aging population and the high prevalence of unhealthy lifestyle-related factors such as physical inactivity, poor nutrition, and obesity are projected to further increase the burden of CVD, stroke, and other noncommunicable diseases (NCDs). One study estimates that increased adolescent obesity alone will increase the prevalence of coronary heart disease in the range of 5% to 16% by 2035, with >100,000 excess cases of coronary heart disease–attributable deaths during the same period. Unless effective prevention strategies are implemented, the direct healthcare costs of CVD are projected to triple from $273 billion in 2010 to $818 billion in 2030, and indirect costs associated with lost productivity are predicted to increase from $172 billion to $276 billion during the same period.

The AHA/ASA’s 2020 Impact Goal sets out strategies for improving CVH and decreasing cardiovascular mortality. Drawing on extensive analysis of all available evidence, the AHA/ASA has developed a comprehensive set of metrics to define CVH. The metrics cover 7 domains, called Life’s Simple 7, that define CVH: smoking status, diet quality, physical activity levels, body mass index, blood pressure, blood cholesterol, and fasting blood sugar. These metrics are classified into 3 clinical strata: ideal, intermediate, and poor (Table 1). An assessment tool (My Life Check) and composite score (range, 0–10) based on Life’s Simple 7 reflecting CVH have been developed and validated. Individuals with ideal levels for all 7 metrics are considered to have ideal CVH; however, several surveys have demonstrated that very few Americans have ideal CVH. Only 18% of Americans have ≥5 metrics with ideal levels, with lower prevalence among men (11%) compared with women (25%). These data are corroborated by other investigations using similar measures, such as the Optimal Lifestyle Metric, which focused on the summary health scores of 4 healthy behaviors, namely the simultaneous adherence to abstinence from smoking, adequate physical activity, eating 5 fruits and vegetables daily, and consuming a limited or no amount of alcohol. These 4 healthy behaviors have proved difficult to sustain for most Americans and are responsible for almost 40% of all deaths, nearly 80% of chronic diseases, and almost 75% of all healthcare expenditures in the United States. Increased rates of mental disorders are also increasingly contributing to greater disability in the US population. Conversely, adherence to this set of 4 healthy behaviors has been associated with an increase in healthy life expectancy of 14 years. Among employees, varying levels of adherence to these behaviors can have a dose-response relationship to lower short-term (2 years of follow-up) incidence of coronary heart disease, diabetes mellitus, dyslipidemia, hypertension, and back pain. Furthermore, adherence to these healthy behaviors was associated with a significantly better emotional health state, as measured by feelings of depression, risk for high stress, and impact of emotional health on daily life. Therefore, the AHA/ASA Impact
Goal 2020 represents an important shift from focusing on clinical disease management to improving CVH by promoting healthy lifestyle behaviors, addressing modifiable health behaviors in addition to risk biomarkers, and implementing both individual-level and population-based health promotion strategies that improve population-level CVH.31

An underlying goal of the Patient Protection and Affordable Care Act32 provisions relating to workplace wellness is to address the documented association between workers’ modifiable risk factors and increased healthcare costs.14,33 Although chronic NCDs currently account for ≈84% of annual healthcare expenditures, two thirds of total healthcare dollars are spent on treating NCDs among working-age adults <65 years of age.35 An estimated 20% to 30% of companies’ annual healthcare expenditures are spent on employees with 10 modifiable risk factors. These include the 7 risk factors that comprise Life’s Simple 7: cigarette smoking, obesity, hypertension, dyslipidemia, physical inactivity, poor diet, and diabetes mellitus.14,33 In addition, 3 other factors, depression, stress, and overconsumption of alcohol are important risk factors inversely associated with CVH and positively associated with higher medical expenditures.33 A study by Bolnick and colleagues36 estimated that the total healthcare expense per person for working-age adults is $3534, and that up to 20% of these direct costs could be saved if the modifiable risk factors of NCDs among workers were reduced to their theoretical minimums.

Table 1. Life’s Simple 7: Definitions of Poor, Intermediate, and Ideal CVH in the AHA/ASA 2020 Goals for Adults ≥20 Years of Age

<table>
<thead>
<tr>
<th>Metric</th>
<th>Poor</th>
<th>Intermediate</th>
<th>Ideal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current smoking</strong></td>
<td>Yes</td>
<td>Former ≤12 mo</td>
<td>Never or quit &gt;12 mo; never tried; never smoked whole cigarette</td>
</tr>
<tr>
<td><strong>BMI</strong></td>
<td>≥30 kg/m²</td>
<td>25–29.9 kg/m²</td>
<td>18.5–25 kg/m²</td>
</tr>
<tr>
<td><strong>PA†</strong></td>
<td>None</td>
<td>1–149 min/wk moderate or 1–74 min/wk vigorous</td>
<td>≥150 min/wk moderate or ≥75 min/wk vigorous</td>
</tr>
<tr>
<td><strong>Healthy diet pattern (No. of components):‡</strong></td>
<td>0–1</td>
<td>2–3</td>
<td>4–5</td>
</tr>
<tr>
<td><strong>Total cholesterol</strong></td>
<td>≥240 mg/dL</td>
<td>200–239 mg/dL or treated to goal</td>
<td>&lt;200 mg/dL</td>
</tr>
<tr>
<td><strong>Blood pressure</strong></td>
<td>SBP ≥140 mm Hg or DBP ≥90 mm Hg</td>
<td>SBP 120–139 mm Hg or DBP 80–89 mm Hg or treated to goal</td>
<td>SBP ≤120 mm Hg or DBP ≤80 mm Hg</td>
</tr>
<tr>
<td><strong>Fasting plasma glucose</strong></td>
<td>≥126 mg/dL</td>
<td>100–125 mg/dL</td>
<td>&lt;100 mg/dL</td>
</tr>
</tbody>
</table>

*AHA/ASA indicates American Heart Association/American Stroke Association; BMI, body mass index; CVH, cardiovascular health; DBP, diastolic blood pressure; PA, physical activity; and SBP, systolic blood pressure.

*Represents appropriate energy balance (ie, dietary quantity and PA to maintain normal body weight).

†My Life Check question to assess PA is, “How much physical activity do you get each week: 1) moderate 2) vigorous?”

‡In the context of a healthy dietary pattern that is consistent with a Dietary Approaches to Stop Hypertension (DASH)–type eating pattern, to consume ≥4.5 cups/d of fruits and vegetables, ≥2 servings/wk of fish, and ≥3 servings/d of whole grains and no more than 36 oz/wk of sugar-sweetened beverages and 1500 mg/d sodium.

**Framework for CWWPs**

The purposes of investing in CWWPs are to improve employee health and well-being, to save direct and indirect costs associated with poor health and NCDs, and to generate value through additional health and non–health-related outcomes, all achieved with a process that allows the creation of a workplace culture conducive to these goals.10,11,37–42 However, not all workplace wellness programs are created equal. The Patient Protection and Affordable Care Act does not define or establish a quality standard for workplace wellness programs and requires only that programs be “reasonably designed to promote health or prevent disease.”43 In the absence of guidance on this issue, it is reasonable to identify best practices that have been associated with successful program outcomes in the design of workplace wellness programs. Based on a review of the literature that considered primary research on this topic44 and insights stemming from industry reports and consensus statements, an analysis identified 44 best practices that are clustered into 9 best practice principles for program design (Table 2).30,45

This review recognizes the 5 elements of a CWWP as defined by Healthy People 201046 and is informed by the Essential Elements of Effective Workplace Programs and Policies for Improving Worker Health and Wellbeing list generated by an expert panel convened by the National Institute for Occupational Safety and Health.46 Insights from behavioral economics also indicate that, to the extent that programs involve financial incentives, recognizing triggers for judgment/assumption-based decision errors is important in designing programs to be as effective as possible.47,48

**The Regulatory Context**

Specific to compliance, Congress revised the law related to workplace wellness programs in the Patient Protection and Affordable Care Act. Workplace wellness programs are defined as programs offered by employers that are “designed to promote health or prevent disease.”49,50 Regulations published in 2013 differentiate between participatory wellness...
Table 2. Nine Best Practice Principles of CWWPs

<table>
<thead>
<tr>
<th>Design Principle</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership</td>
<td>Elements that set program vision and organizational policy, ensure resources, support implementation, and connect programs to business goals</td>
</tr>
<tr>
<td>Relevance</td>
<td>Elements that address factors critical to participation and employee engagement</td>
</tr>
<tr>
<td>Partnership</td>
<td>Collaborative efforts with other stakeholders, including unions, vendors, and community organizations</td>
</tr>
<tr>
<td>Comprehensiveness</td>
<td>Elements consistent with the Healthy People 2010 definition of comprehensiveness</td>
</tr>
<tr>
<td>Implementation</td>
<td>Elements that ensure a planned, coordinated, and fully executed work plan and process tracking system</td>
</tr>
<tr>
<td>Engagement</td>
<td>Promotion of an ongoing connection between employees and the program that creates trust and respect and builds a culture of health</td>
</tr>
<tr>
<td>Communications</td>
<td>Elements that ensure a strategic approach to making the program visible on an ongoing basis</td>
</tr>
<tr>
<td>Data driven</td>
<td>The intentional use of data in measuring, integrating, evaluating, and reporting on the program and its improvement over time</td>
</tr>
<tr>
<td>Compliance</td>
<td>Elements that ensure that the program meets regulatory requirements and protects personal information of employees and participants</td>
</tr>
</tbody>
</table>

CWWP indicates comprehensive workplace wellness program.

programs, which do not offer a reward or do not require an individual to satisfy a health-related standard to qualify for a reward, and health-contingent wellness programs, which can be either outcome based (individuals either attain or maintain specific health outcomes or an alternative standard to obtain rewards) or activity only (completion of an activity or an alternative standard to obtain a reward). Reporting and otherwise using an individual’s personal health information, including information obtained from a workplace wellness program, requires compliance with numerous laws and regulations. These include the Health Insurance Portability and Accountability Act, the Americans with Disabilities Act, the Genetic Information Nondiscrimination Act, and the Employment Retirement Income Security Act, as well as state regulatory requirements. Employees may be hesitant to participate in a workplace wellness program if they have concerns about how their personal health information will be used and protected. Thus, employers should ensure that their policies related to the protection and use of personal health information and the regulatory landscape are transparently disclosed to employees.3,52,53

The Health and Economic Outcomes of Workplace Wellness Programs

The scientific literature demonstrates that participation in a worksite wellness program is most likely to improve population-level health outcomes when programs are defined as comprehensive, multilevel, and multicomponent programs; designed according to the 9 best practice principles described above; informed by evidence of effectiveness; and fully executed and evaluated.10,11,37,38,44 The AHA/ASA issued a policy statement recommending that CWWPs should incorporate a screening component (including assessing CVH status as described by Life’s Simple 7), which is followed up by comprehensive and high-quality interventions aimed at improving CVH metrics.3 However, when studies or reviews on the subject include programs that are poorly designed, not informed by evidence of effectiveness, inadequately resourced, and not fully executed, marginal/neutral benefits or even negative results are potentially obtained.9,11 This makes clear the need for definitions and standards about what constitutes a bona fide workplace wellness program that is “reasonably designed” to produce positive health outcomes.2,11

When economic outcomes are considered, similar logic applies. Well-designed programs appear to generate savings from reduced healthcare expenditures and reduce absenteeism,37,38,44 whereas poorly designed and ineffective programs may have a neutral or negative financial impact.54,55 Baicker and colleagues37 estimate the healthcare cost return on investment (ROI) to be $3.27 for every dollar spent on worksite wellness programs and the absenteeism ROI to be $2.73 for every dollar spent. Other research has demonstrated that the level of ROI is associated with the rigor of the research methods used and the comprehensiveness and duration of the program interventions.56,57 Furthermore, there is strong evidence that reducing NCD risk among working-age adults could reduce healthcare costs.2,58 However, the National Business Group on Health estimates that employers allocate <2% of their total healthcare expenditures to prevention programs.59 This persistent underinvestment in prevention and health promotion may reflect the historic undervaluation of prevention.1,2,60–62 As both Goetzel et al11 and Volpp and colleagues11,63 have pointed out, few employer-provided programs are expected to produce a positive ROI, yet workplace wellness programs are often held to a higher standard than medical treatments to justify their worth to employers. This is true despite the fact that the primary goal of health services is more often to improve health, not to save money. Moreover, cost is often not considered in coverage decisions; thus, many accepted treatment options lack cost-effectiveness. This double standard leads to overinvestment in low-value treatments and underinvestment in prevention. A few research studies published in the past 2 years using different study designs reported mixed results on net cost savings from workplace wellness programs.9,55,64 Limited investment in research, the overuse/misuse of ROI that has tended to narrowly focus on direct healthcare costs and absenteeism, and some methodologically weak research are significant obstacles to making the workplace a more effective and widely adopted site for prevention and health promotion.2,11

The Business Case for Workplace Wellness in the Community Context

The decision to invest in the health of employees has an additional benefit for their families and the communities where they live, creating far-reaching benefits for the company. For example, companies that intentionally and strategically invest resources in this manner may be seen as employers of choice, experience less turnover, increase their ability to attract and retain top talent, increase the likelihood to achieve safety targets, enhance manufacturing reliability, increase employee engagement and job satisfaction, and
manage healthcare costs better. Significant barriers may exist, however, for companies to justify such investments. These barriers include a lack of a sufficiently compelling and well-understood business case, the pervasive belief that preventive services must save money to be worthwhile (as opposed to improving health like other healthcare services), lack of insight about what is required to successfully connect with local community resources, the complexity of working with multiple stakeholders in a collaborative and long-term initiative, and clarity on the most effective implementation models. In addition, a clear lack of professional preparation and leadership with respect to some workplace wellness programs has been noted. Leaders should clearly demonstrate support of CWWPs, both vocally and through their actions in implementing and sustaining initiatives. A culture of health can be defined as a workplace culture that supports health. According to the Centers for Disease Control and Prevention (CDC), a culture of health in the workplace requires that employee health and safety be valued, supported, and promoted through workplace health programs, policies, benefits, and environmental supports. Employees who feel that a culture of workplace wellness is strongly supported and encouraged by leadership may be more likely to participate in programs offered. Succinctly stated, there is a greater need for CWWP champions at all levels within an organization.

### Current State of Workplace Wellness Scorecards and Recognition Programs

Companies seeking guidance on how to create a healthy worksite and workforce have access to a number of organizational tools that have been developed over the past 2 decades. Scorecards generally refer to self-assessment tools that help employers to determine whether their programs are consistent with industry best practices. Recognition programs are generally award-based initiatives offered by professional organizations or societies interested in celebrating excellence in wellness programming and promoting program quality and performance. These programs typically use organizational checklists or scorecards as the basis of tiered recognition or accreditation. URAC, formerly known as the Utilization Review Accreditation Commission, and the National Committee on Quality Assurance are the only healthcare quality-assessment organizations that have developed wellness-specific accreditation programs and quality-assurance standards for worksite wellness vendors that are regularly reviewed by expert panels. The results of their assessments are made available to vendors or sponsoring companies but are not shared for industry-wide benchmarking purposes. Organizations like the National Wellness Institute offer programs that certify worksite wellness professionals; however, the focus of this advisory is on organizational scorecards and recognition programs, not accreditation of third-party worksite wellness vendors or individual professionals.

The majority of existing programs draw on elements of the 9 best practices summarized in the previous section. However, scoring methodologies and the scientific validation of these programs and tools vary. Specific to scorecards, there is some emerging evidence from the United States that correlates high-scoring companies with abated trends in healthcare cost. We are aware of only 1 study that has examined the influence of a recognition program on company financial performance. In their study of the American College of Occupational and Environmental Medicine’s Corporate Health Achievement Awards, Fabius and colleagues showed that the highest-rated programs, per recognition program criteria, had superior financial performance compared with similar companies that had not been recognized by this program. There appear to be no studies that have associated performance against quality criteria of a recognition program with improvements in employee CVH risk factors over time.

### Worksite Health Scorecards

Assessment tools to evaluate various components of workplace wellness programs are available from several different organizations. Table 3 summarizes the key features of 3 free online scorecards, with higher scores associated with reduced healthcare costs. Each scorecard has different weights for individual components. The most striking difference is that reporting employee health outcomes is optional and does not contribute to the overall score in the HERO and CDC scorecards, whereas 58% of the National Business Group on Health (NBGH) on Health Scorecard (105 of 200 points) is allocated to documenting the impact of programs on health behaviors, health outcomes, and wellness savings.

The scorecards also vary in the degree to which they are scientifically validated. Several descriptive analyses have supported the predictive validity of the HERO ScoreCard; respondents with higher scores report higher health assessment participation rates and improved employee health risk.

A retrospective study based on version 3 of the tool found that higher scores were associated with reduced healthcare costs. The study examined 700,000 annual individual employee health insurance claims from 33 organizations that completed the scorecard from 2009 to 2011. Organizations were dichotomized into high (scores of 100–200) and low (scores of 0–99); healthcare costs and risk factor trends were then compared. Results showed that high-scoring companies experienced significant reductions in inflation-adjusted healthcare costs (average, $1.6% points over 3 years) compared with low-scoring companies that remained stable (per-person per-year cost, $3051 versus $2855). However, the study showed mixed results for reductions in health risk factors. The first version of the CDC scorecard, which consisted of 12 sections, was validated for content and reliability by Emory University. The study consisted of 93 employers ranging in size from very small (<100 employees) to large (>750 employees). The original survey had a maximum of 215 points, and the average overall score was 129 points, ranging from 99 points (very small companies) to 153 points (very large companies). Four
TABLE 3. Comparison of Select Organizational Health Scorecards

<table>
<thead>
<tr>
<th>Component</th>
<th>HERO</th>
<th>NBGH</th>
<th>CDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>First launched</td>
<td>2006 (version 4)</td>
<td>2009</td>
<td>2012 (version 2)</td>
</tr>
<tr>
<td>Development</td>
<td>HERO and Mercer convened a Think Tank Force for Metrics with members representing the consulting industry, wellness vendors, and employers</td>
<td>NBGH’s Institute on Innovation in Workforce Well-Being and NBGH’s Benchmarking and Analysis, with input from an external preventive medicine consultant</td>
<td>CDC Division for Heart Disease and Stroke Prevention, Emory University Institute for Health and Productivity Studies, Research Triangle International, CDC National Center for Chronic Disease Prevention, and The Health Promotion Workplace Workgroup</td>
</tr>
<tr>
<td>Estimated reach</td>
<td>1000 companies</td>
<td>&gt;100 large companies (≥5000 employees), mostly NBGH members</td>
<td>900–1000*</td>
</tr>
<tr>
<td>Length (No. of questions)</td>
<td>64 scored questions plus 5 optional questions in the Outcomes section</td>
<td>33 questions</td>
<td>125 questions</td>
</tr>
<tr>
<td>Scoring methodology</td>
<td>Automatic scoring based on expert consensus formula</td>
<td>Total maximum score is 200 points</td>
<td>Total maximum score is 264 points</td>
</tr>
<tr>
<td>Components</td>
<td>Strategic planning</td>
<td>Focus is on 5 specific areas: tobacco cessation, healthy nutrition/weight management, regular physical activity, stress management, and use of preventive screenings. Metrics are organized into 3 domains: Strategy and tactics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Organizational and cultural support</td>
<td>Participation</td>
<td>Workforce impact</td>
</tr>
<tr>
<td></td>
<td>Programs</td>
<td>Measurement and evaluation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Program integration</td>
<td>Program costs†</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Participation strategies</td>
<td>Outcomes‡</td>
<td></td>
</tr>
<tr>
<td>Assessments and reports</td>
<td>Automatic scoring report from overall score, section scores, and national norms e-mailed on submission</td>
<td>Users receive individual reports with feedback on how their scores compare with employer benchmarks</td>
<td></td>
</tr>
<tr>
<td>Validation studies published</td>
<td>Yes, several including a predictive validation study</td>
<td>None at present</td>
<td>Yes, content and interrater reliability studies published</td>
</tr>
</tbody>
</table>

CDC indicates Centers for Disease Control and Prevention; HERO, Health Enhancement Research Organization; and NBGH, National Business Group on Health.

†Section is optional and does not contribute to the total score.
‡Section is optional and does not contribute to the total score.

additional modules added in 2013 were validated by the use of a protocol similar to the original study.¹⁶ At present, no validation study of the National Business Group on Health scorecard has been published in the peer-reviewed literature.

Worksite Wellness Recognition Programs

Worksite wellness accreditation can be defined as an external assessment process used by accreditation organizations to evaluate whether a company’s wellness program satisfies certain structural, process, and outcome standards. Most accreditation programs require that companies demonstrate a certain level of performance based on a worksite wellness scorecard or checklist; however, many accreditation programs do not specifically require that companies demonstrate achievement or standards in workforce health. In contrast, most worksite wellness recognition programs frequently assess the achievement of certain performance levels on the basis of both organizational and employee health outcomes; however, the composition and scoring of quality metrics vary by program. Some programs offer recognition based on program components as opposed to achieving a specified level of quality or performance. There are a number of existing recognition programs for worksite wellness programs. Table 4 summarizes the key features of some of the more widely recognized national accreditation/recognition programs: HealthLead,⁷⁸ Wellness Council of America’s Well Workplace Awards,⁷⁹ AHA/ASA’s Fit-Friendly Worksites,⁸⁰ The Health Project’s Everett Koop National Health Awards,⁸¹ the American College of Occupational and Environmental Medicine’s Corporate Health Achievement Award,⁸² and the National Business Group on Health’s Best Employers for Healthy Lifestyles.⁸³

Table 4 shows considerable variation in recognition programs with respect to eligibility criteria, scoring, recognition tiers, assessment process, and estimated reach. HealthLead is currently the only accreditation program for workplace wellness programs that audits responses using site visits. The scoring methodology allows a company to receive the initial level of accreditation without showing positive outcomes. However, the 2 higher levels of accreditation require a higher level of performance, including positive outcomes. To date, no research has assessed the effect of the HealthLead accreditation on improvements in workforce health over time, although efforts are currently underway to do so (N. Pronk, personal communication, November 21, 2014). Although the AHA/ASA’s Fit-Friendly Worksites does not
currently have an auditing component, the annual program reach is significant. To receive higher-tier recognition as a Fit-Friendly Worksite, an organization must achieve initial-tier recognition and demonstrate at least 1 of the prespecified positive outcomes in any of 3 categories (behavior change, cost savings, and ROI). Outcomes are required to show a 10% annual relative change for the company to receive the award. A tobacco policy requirement has been added, and companies have until November 1, 2015, to implement and actively enforce written tobacco ban policies to be eligible for accreditation.84

The workplace wellness recognition programs focus on structural processes or outcome measures in various combinations, and there is substantial variability in the criteria used among the existing programs. To focus on improving CVH and reducing CVD and stroke, a more optimal approach may be a recognition system that more comprehensively and systematically evaluates the effectiveness of a program in reducing

### Table 4. Comparison of Select Workplace Wellness Recognition Programs

<table>
<thead>
<tr>
<th>Organization</th>
<th>HealthLead</th>
<th>Well Workplace Award</th>
<th>Fit-Friendly Worksites</th>
<th>Everett Koop National Health Award</th>
<th>Corporate Health Achievement Award</th>
<th>Best Employers for Healthy Lifestyle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year launched</td>
<td>2008</td>
<td>2012</td>
<td>2007</td>
<td>1996</td>
<td>2005</td>
<td></td>
</tr>
<tr>
<td>Eligibility criteria</td>
<td>Open to all companies</td>
<td>Open to member organizations</td>
<td>Open to all companies with 25 employees; CWWPs must have been in place for at least 12 mo</td>
<td>Open to all companies nationwide; CWWPs must have been in place for at least 36 mo</td>
<td>North American organizations with &gt;500 employees</td>
<td></td>
</tr>
<tr>
<td>Scoring system</td>
<td>100 maximum points, 20 allocated to outcomes reporting</td>
<td>Uses Well Work Checklist</td>
<td>Uses AHA/ASA checklist</td>
<td>Proprietary. Applicants are encouraged to include results from available scorecards such as HERO Scorecard or CDC Worksites Health Scorecard</td>
<td>1000 maximum points; 4 sections weighted equally; points awarded for program content/quality, appropriate dissemination, metrics, and positive outcomes or outcome trends</td>
<td></td>
</tr>
<tr>
<td>Recognition tiers</td>
<td>3</td>
<td>4</td>
<td>2, renewed annually; 1-time award for innovation</td>
<td>1 award tier plus Honorable Mention category</td>
<td>1 award tier</td>
<td></td>
</tr>
<tr>
<td>Assessment process</td>
<td>Fee-based comprehensive online survey is followed by a fee-based site visit to audit results</td>
<td>Each section of the checklist is graded (100 points) and feedback is given on a 4-point scale (needs attention, good, very good, and excellent)</td>
<td>Online application; initial tier recognition requires a minimum of 6 physical activity, 2 nutrition, and 1 workplace culture best practice</td>
<td>Award application form is assessed</td>
<td>Award committee and examiners are appointed annually to assess applications</td>
<td></td>
</tr>
<tr>
<td>Estimated reach</td>
<td>19 companies accredited to date</td>
<td>&gt;1000 businesses</td>
<td>≈70 awards</td>
<td>&gt;30 businesses to date</td>
<td>≈150 companies to date</td>
<td></td>
</tr>
</tbody>
</table>

ACOEM indicates American College of Occupational and Environmental Medicine; AHA/ASA, American Heart Association/American Stroke Association; ASTHO, Association of State and Territorial Health Organizations; CDC, US Center for Disease Control and Prevention; CWWP, comprehensive workplace wellness program; NACCHO, National Association of County and City Health Officials; NBGH, National Business Group on Health; WELCOA, Wellness Council of America; and WISCORE, Wellness Impact Scorecard.
CVH risk among its employees. The continued persistence of suboptimal CVH and the significant variability between different workplace wellness programs provide a compelling rationale for a national CWWP recognition program based on rigorous standards aimed at optimizing Life’s Simple 7. Implementation of a CWWP recognition program from the AHA/ASA based on Life’s Simple 7 metrics would provide a framework to evaluate and recognize those workplaces with effective systems in place that meet high standards for obtaining CVH and producing favorable clinical outcomes.

**AHA/ASA Experience With Hospital Recognition Programs: Potential Applicability to a CWWP Recognition Program**

Get With The Guidelines (GWTG) is a comprehensive suite of clinical practice guidelines and 4 disease-specific registries that were developed by the AHA/ASA to improve the quality of in-hospital care and to reduce care disparities for CVD and stroke. A program for coronary artery disease was launched nationally in 2001, followed by programs for stroke and heart failure in 2003 and 2005, respectively. Approximately 31% of all hospitals registered with the AHA/ASA participate in at least 1 GWTG program, and many use >2 of the modules. GWTG programs were designed to reduce the barriers to routine use of evidence-based care by improving provider knowledge, attitudes, and behaviors to implement evidence-based care. Elements of the program include stakeholder and opinion leader meetings, collaborative learning sessions, hospital toolkits, local clinical champions, multidisciplinary teams, and hospital recognition. The AHA/ASA also developed clinical databases (ie, registries) that allow hospitals and physicians to collect information in real time for quality assessment and for regional and national benchmarking.

An essential driver of quality improvement in GWTG has been an AHA/ASA national recognition program for hospitals. GWTG uses a hospital recognition program known as the Performance Achievement Award that is based on process measures that include both performance (ie, achievement) and quality measures. Measures are developed by AHA physician volunteers and AHA/ASA staff, are based on national guidelines and performance measures, and are harmonized with measures developed by other national stakeholders such as the American College of Cardiology, the US Department of Health and Human Services, and The Joint Commission and those already endorsed by the National Quality Forum. The Performance Achievement Award recognizes the attainment of 85% performance for each of the modules of performance measures. AHA/ASA also used recognition for target stroke and target heart failure (Honor Roll). The recognition awards are used as a nonfinancial incentive to engage hospital leadership, governance, and the hospital’s community to support GWTG objectives. Although it is a voluntary program, participation has grown significantly within each disease module since program inception. Today, there are almost 2000 unique GWTG contracts across the 4 registries, with the highest participation in the stroke program (1656 participating hospitals). Total patient admission records grew from 123,986 in fiscal year 2005 to >4.6 million records in fiscal year 2013. Performance Achievement Award and Honor Roll hospitals receive national recognition through a number of channels, including having their hospital name and award listed in US News & World Report Best Hospitals Edition advertisements, inclusion on the AHA Quality Map (www.heart.org/myhealthcare), and use of the recognition logos on marketing materials, signs, and the Web.

GWTG has been shown to substantially improve the quality of hospital-based care by identifying critical gaps in care, fostering the implementation of targeted interventions to reduce disparities, measuring progress over time, and facilitating the development of new quality measures. Furthermore, GWTG has demonstrated that nonfinancial incentives such as the AHA/ASA recognition awards also encourage leadership and community support of high-performing systems of care. Data analysis has shown rapid and year-over-year improvements in evidence-based care for stroke, heart failure, and coronary artery disease between 2006 and 2011. For example, the recognition program for stroke has been associated with rapid improvements in door-to-needle time, now within 60 minutes, in >1000 hospitals and other clinical outcomes such as smoking cessation counseling given at discharge. In addition, Primary Stroke Center Certification and GWTG-Stroke Performance Achievement Award recognition identified stroke hospitals with higher conformity to care measures for patients hospitalized with acute ischemic stroke. However, Performance Achievement Award recognition was a more robust identifier of stroke hospitals with better performance.

Although the hospital setting and worksite wellness programs clearly differ in numerous ways, including the fact that healthcare provision is the core business of hospitals, whereas most businesses are not reimbursed for keeping their employees healthy, they should share common goals, including providing high-quality interventions, delivered in a standardized fashion based on best available evidence and expert opinion; reducing healthcare expenditures; and demonstrating improved outcomes as a result of care provided. The inclusion of and attention given to worksite wellness programming in the Patient Protection and Affordable Care Act have facilitated migration of this model into the healthcare arena. Therefore, establishing specific and transparent performance standards for what defines a CWWP is warranted. The AHA/ASA believes that, just as national recognition from the AHA/ASA motivated positive performance in GWTG, a similar approach has the potential to help increase adoption of high-quality CWWP.

**Utility of AHA’s Life’s Simple 7/My Life Check for Evaluating Employee Health**

The strong link between Life’s Simple 7 and the construct of CVH was summarized in detail in the AHA’s 2020 Strategic Impact Goal statement. Since then, an extensive body of literature from numerous observational and prospective studies has demonstrated that the Life’s Simple 7 metrics and the associated CVH score are strongly associated with many favorable outcomes, summarized in Table 5. For example, better CVH scores are associated with lower CVD incidence, prevalence, and mortality and all-cause mortality in all race-ethnic subgroups studied to date. Ford and colleagues found that the number of ideal CVH metrics is strongly and inversely...
related to mortality resulting from both CVD and other causes after adjustment for a variety of factors such as demographics, socioeconomic status, alcohol use, self-reported health status, health insurance, and history of CVD or cancer. Adults who had ≥5 ideal CVH metrics were at 78% lower risk of all-cause mortality and 88% lower risk of cardiovascular death over 5.8 years of follow-up. Although very few adults met all 7 CVH metrics in the ideal category (≥1% in this sample), most adults met 2, 3, or 4 ideal metrics, which were nevertheless associated with substantial reductions in mortality compared with people with no ideal metrics. Similarly, in a 20-year follow-up of adults in the Atherosclerosis Risk in Communities Study (ARIC), the CVH score in young adulthood (at a mean age of 25 years) was significantly associated with a 25% lower risk of stroke; the results were more strongly related to mortality resulting from both CVD and other causes after adjustment for a variety of factors such as demographics, socioeconomic status, alcohol use, self-reported health status, health insurance, and history of CVD or cancer. Adults who had ≥5 ideal CVH metrics were at 78% lower risk of all-cause mortality and 88% lower risk of cardiovascular death over 5.8 years of follow-up. Although very few adults met all 7 CVH metrics in the ideal category (≥1% in this sample), most adults met 2, 3, or 4 ideal metrics, which were nevertheless associated with substantial reductions in mortality compared with people with no ideal metrics. Similarly, in a 20-year follow-up of adults in the Atherosclerosis Risk in Communities Study (ARIC), the CVH score in young adulthood (at a mean age of 25 years) was significantly associated with a 25% lower risk of stroke; the results were more strongly associated with a similar stepwise improvement in CVD risk regardless of which metric improved (ie, risk reductions were similar for ideal behavioral factors or health factors).

A study of stroke incidence and cognitive function found that after adjustment for demographic, socioeconomic, and region of residence, each improved category of Life’s Simple 7 (ie, poor to intermediate and intermediate to ideal) was associated with a 25% lower risk of stroke; the results were similar for white and black adults. This study also found that a small improvement in the Life’s Simple 7 score conferred significant health benefits: A 1-point higher Life’s Simple 7 score was associated with an 8% lower risk of stroke. In a multiethnic community-based prospective cohort study with a significant representation of Caribbean Hispanics, Dong and colleagues also found an inverse association between the number of ideal CVH metrics and individual CVD end points, including stroke, myocardial infarction, and vascular death, after 11 years of follow-up. The results were remarkably similar for whites, blacks, and Caribbean Hispanics. Although this population cohort is older than the ARIC cohort, results showed a 59% lower CVD risk for those adults with 5 to 6 ideal metrics compared with those having 0 to 1 ideal metric. Furthermore, the researchers once again found that there were incremental benefits to increasing the number of CVH metrics; people with ≥5 ideal metrics and 2 to 3 ideal metrics were at 50% and 30% lower risk of vascular death, respectively, compared with people with 0 to 1 metric. These results led the authors to conclude that “despite race-ethnic disparities in the prevalence of ideal CVH, our data provide evidence to support the uniform application of the AHA ideal CVH metrics for CVD risk assessment and health promotion for all Americans regardless of their race-ethnic backgrounds.”

A number of additional major health outcomes have been found to be significantly associated with the CVH score of Life’s Simple 7 metrics. Rasmussen-Torvik and colleagues found that there was a significant, graded, inverse association between the number of ideal CVH metrics at baseline and cancer incidence. Participants meeting 6 to 7 ideal health metrics had 51% lower risk of incident cancer over 18 years of follow-up than those meeting goals for 0 ideal CVH metrics. Other investigators have also shown a lower risk for venous thromboembolism and end-stage renal disease with higher CVH scores. In addition, several groups have reported lower burden of subclinical CVD. For example, in the Young Finns Study, change in ideal CVH status, both from childhood to adulthood and from young adulthood to middle age, was an independent predictor of lower adult pulse-wave velocity. An article by Xanthakis and colleagues extend these findings by also linking the CVH score with circulating biomarkers and prevalent subclinical CVD in the Framingham Heart Study population. The CVH score was also associated with lower odds of subclinical disease and lower risk of CVD. The authors point out that these findings validate earlier studies and validate the linear association between CVH score and CVD incidence, thereby establishing Life’s Simple 7 as a reasonable framework for public health interventions.

In addition to the compelling data on clinical outcomes and subclinical measures, a number of investigators have observed better quality of life, better cognitive function, lower prevalence of depression, compression of morbidity, and reduced Medicare charges associated with higher CVH in middle age. Allen and colleagues used data from the National Health and Nutrition Examination Survey (NHANES) and observed that, compared with those in overall low CVH (with scores of 0–7 of 14 points), individuals with high CVH (defined as 11–14 points on the CVH score) are 6.4 times more likely to report that they are in excellent general health and 60% less likely to report poor physical or mental health ≥14 days of the prior month. These findings translated into an average of 3.2 fewer unhealthy days per month reported by those with high compared with low CVH and a difference of almost 1 full day per month when individuals were unable to perform their usual activities. Prospective data from the Coronary Artery Risk Development in Young Adults (CARDIA) Study also indicate that the CVH score in young adulthood and maintenance of better CVH into middle age are both associated with better self-reported quality of life 25 years later at a mean age of 50 years.

Also from the CARDIA Study, the CVH score in young adulthood (at a mean age of 25 years) was significantly

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Table 5. Domains of Improved Outcomes With Which Greater Levels of CVH (as Defined by the AHA) Have Been Associated Prospectively

<table>
<thead>
<tr>
<th>Domain</th>
<th>CVH (AHA)</th>
<th>Nonfinancial Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>All-cause (total) mortality</td>
<td>End-stage renal disease</td>
<td>End-stage renal disease</td>
</tr>
<tr>
<td>CVD, coronary, stroke</td>
<td>Atherosclerosis and arterial stiffness</td>
<td>Atherosclerosis and arterial stiffness</td>
</tr>
<tr>
<td>mortality</td>
<td>in younger adults</td>
<td>in younger adults</td>
</tr>
<tr>
<td>Nonfatal CVD events</td>
<td>Cognitive function in younger and older adults</td>
<td>Cognitive function in younger and older adults</td>
</tr>
<tr>
<td>Coronary heart disease</td>
<td>Depression</td>
<td>Depression</td>
</tr>
<tr>
<td>Stroke</td>
<td>Quality of life</td>
<td>Quality of life</td>
</tr>
<tr>
<td>Incident cancer</td>
<td>Compression of morbidity</td>
<td>Compression of morbidity</td>
</tr>
<tr>
<td>Venous thromboembolism</td>
<td>Medicare charges</td>
<td>Medicare charges</td>
</tr>
</tbody>
</table>

AHA indicates American Heart Association; CVD, cardiovascular disease, and CVH, cardiovascular health.

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inversely associated with cognitive function measures obtained 25 years later, including visual motor speed, executive function, and verbal memory measures, even after adjustment for demographic, behavioral, and socioeconomic factors.95 Thus, CVH in young adulthood may be an important determinant of cognitive function in middle age, when individuals are at their highest productivity. In >20000 participants from the large, representative, biracial cohort of the Reasons for Geographic and Racial Differences in Stroke (REGARDS) Study, Kronish and colleagues96 observed that participants with depressive symptoms were significantly more likely to have poor levels on each of the Life’s Simple 7 components (except for cholesterol), and there was a graded association between increasing depressive symptoms and lower total Life’s Simple 7 CVH score. Wilkins and colleagues97 observed significant greater longevity and relative and absolute compression of morbidity at the end of life associated with high CVH status at almost all ages studied from 45 to 75 years in both men and women. In other words, in addition to prolonged life, individuals with better CVH spent significantly less time with CVD before death compared with those with poorer CVH. Associated with these findings, having more ideal CVH factors in middle age (≥50 years of age) has been associated with lower annual, total, and last-year-of life expenditures during Medicare eligibility.98,99 These data suggest that attainment of the AHA 2020 goals to improve CVH could contribute to substantial reductions in mortality. They also show that the Life’s Simple 7 metric is linked to CVD/stroke outcomes and is therefore a valid measure of CVH and valid proxy of overall health. Consequently, the individual components of Life’s Simple 7 metrics and its composite score are valid measures of health that should be used as a standardized, objective measurement of workforce health for an AHA/ASA CWWP recognition program. The My Life Check online health assessment tool developed by the AHA allows collection of and feedback on the components of and the composite score of Life’s Simple 7. A new version of My Life Check leverages state-of-the-art technology and allows longitudinal assessment of CVH of individuals and aggregate CVH for companies, as well as multilevel benchmarking. The updated version allows individuals the option to synchronize their wearable health-monitoring devices, which enables timely feedback on and tracking of health behaviors. Furthermore, the updated version offers the capability to enable intracompany and intercompany challenges and competitions to increase participation in healthy behaviors. The chief executive officers from 22 Fortune 1000 companies, including the AHA, participating in the AHA CEO Roundtable have collectively pledged to actively serve as role models for creating a culture of health in their organizations, to provide Life’s Simple 7 as an evidence-based common standard for health programs to their employees and dependents, and to disseminate evidence-based environmental policies and disease prevention programs to improve worker health. This cohort of companies, which employ ≈2 million adults, will work toward the implementation of the enhanced version of My Life Check during 2015 and 2016 and represents a large sample to assess the use of My Life Check in the workplace.100

Metrics Recommended for an AHA/ASA Employee Health Recognition Program

Existing worksite wellness recognition programs are generally based on self-reported measures of program delivery processes (eg, organizational policies, presence of wellness committees, and champions) and a broad range of health outcomes, ranging from smoking to stress. In some cases, information about ROI, including research methods used, is also collected, and increasingly, “value on investment” criteria (ie, measures related to productivity, performance, or a culture of health) are increasingly included. These assessments offer organizations the opportunity to demonstrate use of certain best practices in their worksite wellness program. Nevertheless, such recognition program applications are not designed to demonstrate a clear path from worksite wellness programs to improvements in population-level CVH of employees. Accordingly, the AHA/ASA national CWWP recognition program focuses on the use of science-based metrics to assess the CVH of working adults and proposes the provision of resources and technical assistance to companies that wish to improve and sustain the CVH of their employees. Specifically, the program will be based on CVH measured directly through the Life’s Simple 7 composite score. Workplaces reporting measures that indicate a high level of CVH among employees and achieving a 20% relative improvement in the aggregate Life’s Simple 7 composite score from the baseline measurement will receive the highest honors from AHA/ASA. The Life’s Simple 7 composite score is calculated using the 3 levels of CVH (0=poor status, 1=intermediate status, 2=ideal status), which yields a CVH score for each adult participant ranging from 0 to a maximum of 14 points. The Life’s Simple 7 Composite score converts an individual’s CVH score by dividing an employee’s total score by the maximum number of total points (14) and then multiplying by 10. For adults with no special considerations (defined as no diabetes mellitus or previous or current history of heart disease or on medications for controlling blood pressure, cholesterol, or blood glucose) and ideal diet, the maximum possible points is 14, and the maximal possible composite score is 10.0 (Figure 1).

Although the Life’s Simple 7 metrics may already be routinely collected in many mature worksite wellness programs, for companies to achieve AHA/ASA recognition, it is recommended that they do the following:

- Provide data showing achievement or improvements in the percent of employees who know their Life’s Simple 7 metric numbers;
- Provide the percent of current employees with measured CVH via My Life Check Life’s Simple 7 composite score and the percent of healthy employees who are have high levels of CVH as indexed by the Life’s Simple 7 composite score; and
- Report longitudinal metrics concerning CVH and the magnitude of improvement occurring longitudinally in Life’s Simple 7 metrics and composite score.

The level of a given employee population’s CVH needed for various levels of recognition will be determined at
the outset by absolute levels of CVH for companies by Life’s Simple 7 composite scores and analysis of progress achieved by applicant companies relative to their baseline data. These longitudinal data will be examined along with research to date concerning levels of change that have been achieved in other community and workplace cohorts relative to their starting points. Because the workplace is not synonymous with a worksite and is not bound by the physical location of employees, field-based and telecommuting employees will be included in the recognition program. It should also be considered whether alternative mechanisms for Life’s Simple 7 metrics being collected and reported other than My Life Check would be acceptable for recognition. Although other important risk factors such as alcohol abuse, poor mental health, insufficient sleep, and poorly managed stress are not currently included in Life’s Simple 7 or the My Life Check algorithm, the recognition program will incorporate any additional metrics that AHA/ASA decides to add.

We expect that those companies based in geographic regions with poorer CVH, as captured, for example, by the CDC’s Behavioral Risk Factor Surveillance System data, and with higher incidence and prevalence of less favorable Life’s Simple 7 characteristics may have greater opportunities for improving cardiovascular risk in their total employee population. Conversely, those companies with lower baseline data collection and CVH may face greater challenges in producing improvements. It is also likely that the CVH levels and percent change that can be achieved in small companies (ie, <1000 employees), which employ approximately half of America’s private-sector employees, will be different from changes possible in large companies (ie, >1000 employees). Consequently, consideration should be given to weighting the AHA/ASA recognition criteria and annually adjusting weights to remain responsive to what is learned about what is possible in affecting change in CVH in a variety of workplaces. Although larger companies may be more likely to apply for the AHA/ASA recognition program, My Life Check is a tool that can be implemented and scaled up to any size of company, including small and midsized companies in low-wage industries that often face economic constraints and capacity challenges to implement CWWPs. Small companies also employ a greater proportion of low-income workers who are at increased risk of CVD, so AHA/ASA should give careful consideration to the role that race/ethnicity and socioeconomic status play in the implementation of CWWPs. Finally, AHA/ASA should also give careful consideration to potential implementation barriers related to health data collection and reporting and to monitoring progress in overcoming these barriers.

Preliminary recognition level criteria are listed in Table 6 and should be considered in determining award levels. These criteria allow recognition based on absolute levels of CVH and recognition based on changes accomplished over time.

<table>
<thead>
<tr>
<th>Recognition Level</th>
<th>Initial Tier</th>
<th>Middle Tier</th>
<th>Highest Tier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage of employees with all Simple 7 data reported</td>
<td>25–&lt;50</td>
<td>50–&lt;75</td>
<td>≥75</td>
</tr>
<tr>
<td>My Life Check composite score aggregate</td>
<td>6.0–&lt;7.0</td>
<td>7.0–&lt;8.0</td>
<td>≥8.0</td>
</tr>
<tr>
<td>My Life Check composite scores relative improvement, %</td>
<td>5–&lt;10</td>
<td>10–&lt;20</td>
<td>≥20</td>
</tr>
</tbody>
</table>

AHA/ASA indicates American Heart Association/American Stroke Association.
The primary principle guiding parameter will be how best to encourage and recognize progress toward and ultimately achievement of the goal of 20% relative improvement in CVH as indexed by Life’s Simple 7.

The estimated reach of current programs noted in Table 4 suggests that the perceived benefits of recognition programs provide sufficient incentive for many companies to invest the time and resources in participating in these schemes. However, current participation represents a relatively small proportion of the estimated 11,300 large US firms (with ≥1,000 employees), which suggests that other external strategies beyond recognition programs, including public policy and private-sector initiatives, may be needed to increase the adoption CWWPs.

A Culture of Health and Wellness Program Process Metrics

CWWPs are multilevel health promotion interventions that are designed to foster improvements in both individual health behaviors and organizational structure, environment, and culture. Indeed, affecting significant population-level changes in CVH in the workplace will require a culture of health that supports innovative employee health interventions designed to engage and sustain high levels of employee participation. The AHA/ASA recognition program will also include a culture of health assessment (Figure 2). This approach will require using an existing assessment tool in its current form, adapting/modifying given tools as needed, or developing a new culture of health assessment index. We anticipate that any approach will be done in consultation with other stakeholder organizations. For example, we will consider the comprehensive metrics for employee health management published in February by HERO and the Population Health Alliance. The risk factors that make up Life’s Simple 7 are contained in the Health Impact section of the HERO/Population Health Alliance guidelines. The AHA/ASA may also consider imbedding CVH-related process metrics in an ongoing way via such professional venues.

This culture of health assessment will help to measure the extent to which companies use recommended evidence-based environmental and policy strategies, including strategies contained in the Community Guide of the Community Preventive Services Task Force (http://www.thecommunityguide.org/). Whereas the My Life Check score captures improvements in “downstream” health behaviors, the culture of health index reflects the incorporation of “upstream” strategies to create and sustain supportive corporate environments for lifestyle change. The intentional integration of these tools, ideally at the personal level, will improve researcher and practitioner knowledge of how employees are experiencing their organization’s culture and the impact that improvements in the environment can have on their behaviors and health risks. Furthermore,through its participation in the Preventive Health Partnership,a collaboration with the American Cancer Society and the American Diabetes Association, the AHA/ASA can support successful programs such as the American Cancer Society’s Worksite Solutions that use an evidence-based upstream approach and target the needs of small businesses.

Finally, CWWPs have the potential to address all levels of the socioecological framework, that is, individual, interpersonal, organizational, community, and policy. CWWPs can work collaboratively with local community resources such as forming partnerships with nearby fitness centers and parks. There is growing evidence that programs that integrate community (including business) and clinical resources can improve community-wide CVH and clinical outcomes.

Figure 2. American Heart Association/American Stroke Association workplace wellness recognition program overview.
Future Strategies for Recognition and Research

While the recognition program is implemented, it will be essential to continuously evaluate whether the selected criteria remain valid and meaningful, whether the program is meeting its primary aims, and whether unintended consequences are being avoided. It will important for the AHA/ASA to support, collect, and review further research to determine the effectiveness of workplace wellness programs on a broad range of outcomes, to identify best implementation and dissemination strategies, and to evaluate the impact of the workplace wellness recognition program. There are important opportunities to identify best practices in incentivizing the adoption and effective implementation of CWWPs and further research into the impact of such programs on CVH, clinical outcomes, and other aspects. It also would be desirable to conduct studies showing the relationship between commonly used process metrics and the Life’s Simple 7 composite and how improvement in CVH over time in the workplace environment translates into better outcomes.

Conclusions/Recommendations

Optimizing Workplace Wellness Program via a Recognition Program

The AHA/ASA is committed to supporting and facilitating the translation of research into practice, improving CVH, and preventing CVD and stroke. As a recognized leader in evidence-based guidelines, improving systems of care, and quality programs, the AHA/ASA is dedicated to the achievement of optimal CVH for all individuals. Therefore, the AHA/ASA has engaged in a number of initiatives to further the advancement of CVH and evidence-based prevention, to improve quality of care, to control costs, and to optimize outcomes, including the development of clinical practice guidelines for prevention, treatment, and performance measures. AHA/ASA volunteers, councils, and working groups consist of multidisciplinary members who have extensive expertise in basic, translational, clinical, and population science; quality assessment, quality of care, and outcomes research; statistical and methodological expertise; and public policy, community engagement, and advocacy. The AHA/ASA also has been a leader in the development of systems of care, quality programs for the prevention and treatment of CVD and stroke, and accreditation, certification, and recognition programs, including national hospital accreditation programs. An AHA/ASA national CWWP recognition program would have the potential to advance evidence-based standards with a focus on CVH and to provide recognition for those employers that are delivering appropriate, highest-quality workplace health and wellness initiatives to their employees. By offering a CWWP recognition program that integrates an organizational culture of health assessment with a CVH assessment, the AHA/ASA would continue to advocate for achieving ideal CVH through comprehensive prevention, to provide leadership, and to help set standards in translating prevention and CVH research into actual practice to support workplaces, employers, employees, and their dependents in the critical goal of building healthier lives free of CVD and stroke.

Recommendations

As a part of the AHA/ASA’s mission and organizational strategy, it is recommended that the association encourage expansion of CWWPs, make the enhanced version of My Life Check available for assessment of CVH in the workplace, and establish a CWWP recognition program. It is also recommended that the AHA/ASA provide programs that assist companies in applying best systems and strategies for CWWPs. The recommended CWWP recognition program integrates identification of a culture of workplace wellness, assessment of CVH through an enhanced version of My Life Check, and achievement of rigorous standards for CVH metrics as defined by Life Simple 7. In addition, the AHA/ASA should widely disseminate existing workplace resources (Table 7) and develop new resources and programs that assist employers, employees, and dependents in meeting these rigorous standards and that provide high-quality CWWPs. To promote innovation, improvements, and achievement in workplace wellness programs, the AHA/ASA presents the following recommendations for CWWP recognition:

- Provide objective, unbiased, and meaningful assessments of the culture, structure, processes, and outcomes performance of a workplace wellness program, with a particular focus on CVH, by using a workplace wellness index that indicates the level to which companies have successfully built and achieved a workplace culture of health based on best practice.
- Deploy the validated evidence-based workplace wellness indicators of CVH based on the Life’s Simple 7 composite score and an enhanced version of My Life Check. This platform provides objective, unbiased, consistent assessment and interval reassessment of the CVH health achievements of a CWWP.
- Apply a tiered recognition criteria allowing recognition of companies within defined categories that demonstrate outstanding leadership in building a workplace culture of health that has translated into the overall healthiest employee population.
- Foster innovation and promote sharing of effective strategies by having a category of recognition awards for workplace wellness programs that can demonstrate successful integration of novel and innovative approaches into organizations for improving employee health outcomes.

Table 7. AHA Workplace Wellness Program Resources

<table>
<thead>
<tr>
<th>Resource</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHA Workplace Wellness Guide for Organizational Leaders</td>
<td>114</td>
</tr>
<tr>
<td>AHA Workplace Step by Step Manual</td>
<td>115</td>
</tr>
<tr>
<td>AHA Healthy Workplace Food and Beverage Toolkit</td>
<td>116</td>
</tr>
<tr>
<td>AHA Activity Tracker</td>
<td>117</td>
</tr>
<tr>
<td>AHA Heart Walk</td>
<td>118</td>
</tr>
<tr>
<td>AHA Nutrition Center (heart healthy menus, and healthy cooking tips)</td>
<td>119</td>
</tr>
<tr>
<td>AHA CPR &amp; First Aid</td>
<td>120</td>
</tr>
<tr>
<td>Heart360 (blood pressure monitoring)</td>
<td>121</td>
</tr>
<tr>
<td>My Life Check</td>
<td>20</td>
</tr>
<tr>
<td>AHA Workplace Wellness Resources</td>
<td>122</td>
</tr>
</tbody>
</table>

AHA indicates American Heart Association; and CPR, cardiopulmonary resuscitation.
• Give highly visible, prominent distinction to workplaces that achieve high standards and meet the recognition criteria.
• Provide toolkits, resources, and other programs to assist employers in improving and optimizing their workplace wellness programs.
• Provide monitoring for potential unintended consequences resulting from the recognition program.
• Support, collect, and review further research to determine the effectiveness of workplace wellness programs on a broad range of outcomes such as health disparities, identify best implementation strategies, and evaluate the impact of the workplace wellness recognition program.

This recommended CWWP recognition program holds promise with regard to promoting the best interests of employees and their families and addressing many of the challenges that employers face in providing high-quality workplace wellness and creating a culture of health. As a part of its commitment to promoting high-quality, evidence-based prevention for CVD and stroke, the AHA/ASA should provide the scientific evidence and implement this national recognition program for workplace wellness. The provision of standardized, objective, unbiased recognition criteria has the potential to incentivize achievement of CVH in the workplace for millions of employees. The CWWP recognition program will provide highly visible distinctions for employers that achieve high standards of performance in workplace wellness and employee health. The AHA/ASA provides the recommendations described above with the goal of helping to address these issues as a means of accelerating progress toward the 2020 goals and achieving improvements in CVH for all.

Disclosures

Writing Group Disclosures

<table>
<thead>
<tr>
<th>Writing Group Member</th>
<th>Employment</th>
<th>Research Grant</th>
<th>Other Research Support</th>
<th>Speakers’ Bureau/Honoraria</th>
<th>Expert Witness</th>
<th>Ownership Interest</th>
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</thead>
<tbody>
<tr>
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*Modest.
†Significant.
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