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## The Healthy Aging Research Network: Resources for Building Capacity for Public Health and Aging Practice

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### Abstract

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All authors belong to the Healthy Aging Research Network Writing Group; after the listing of the first two authors, the writing group members are listed in alphabetical order.

There is an urgent need to translate science into practice and help enhance the capacity of professionals to deliver evidence-based programming. We describe contributions of the Healthy Aging Research Network in building professional capacity through online modules, issue briefs, monographs, and tools focused on health promotion practice, physical activity, mental health, and environment and policy. We also describe practice partnerships and research activities that helped inform product development and ways these products have been incorporated into real-world practice to illustrate possibilities for future applications. Our work aims to bridge the research-to-practice gap to meet the demands of an aging population.

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## INTRODUCTION

The increase in the proportion of older adults,<sup>1</sup> combined with their burden of chronic conditions and age-associated syndromes,<sup>2</sup> has created an urgent challenge for public health and aging practice. Despite the fact that effective evidence-based health promotion programs and practices exist, they are not being implemented and disseminated widely.<sup>3</sup> Thus, there is a need to advance the translation of science into practice in the area of public health and aging. Additionally, there is a need for well-trained professionals versed in public health and aging to meet the growing demands of an aging society.<sup>4-6</sup>

This paper describes the contributions of the Healthy Aging Research Network (HAN) to help build public health and aging practice, knowledge, and skills within communities (referred to as “capacity” hereafter). We introduce a set of products and tools that are open access, free of charge, and free of commercial influence that can be applied to enhance community capacity for public health and aging practice in four areas: health promotion practice, physical activity, cognitive and mental health, and environment and policy (Table). HAN priorities are established through a participatory process in which stakeholders help identify national-level needs that are subsequently aligned with HAN member expertise. We also describe practice partnerships that informed and grounded product development for real-world use. Finally, we summarize the ways in which products and tools are being used to enhance provider practice capacity to illustrate possibilities for future applications.

## INTRODUCTION TO THE HAN

The mission of the HAN, established in 2001, is to better understand the determinants of healthy aging, identify interventions that promote healthy aging, and help translate this knowledge into sustainable community-based programs. An earlier publication describes the HAN’s origins, guiding principles, and national network of member campuses (seven universities from seven U.S. states are currently funded network members).<sup>7</sup> Information is available at <http://www.prc-han.org/>. Routinely engaging local, state, and national partners (e.g., government agencies, service providers, professional organizations, foundations, academic campuses) has been key to identifying needs and mutual influences, sharing resources, and advancing knowledge and systems change in evidence-based program delivery. Partnering organizations are listed at <http://www.prc-han.org/partners>. In collaboration with these organizations, we have investigated gaps in evidence regarding healthy aging and efforts to apply existing evidence to practice and policy.<sup>5,8,9</sup> We have also conducted systematic evidence-based reviews related to public health and aging

practice.<sup>10–12</sup> By garnering input from multiple sectors and stakeholders, we have aimed to create unbiased, widely relevant, and timely products that we describe below. A list of network publications is available at <http://www.prc-han.org/publications>.

## HEALTH PROMOTION PRACTICE

In partnership with the National Council on Aging (NCOA), we developed 10 online training modules on evidence-based health promotion for older adults for use by providers in aging services and their public health and community partners. Grounded in components of the RE-AIM framework,<sup>13</sup> a method used to evaluate the public health impact of health promotion interventions, and integrating quality assurance processes, the modules offer systematic strategies for building sustainable programs and funding streams, as well as step-by-step approaches to planning, implementing, evaluating, and maintaining health promotion programs. We also developed two monographs on evidence-based health promotion. The first helps communities understand criteria for evidence-based programs, modify a program to local needs, monitor local adaptations, and identify and plan for strategies to ensure a safe and effective program. It also contains checklists for assessing the quality of physical activity and fall-prevention programs. The second helps community agencies assess the impact, reach, and effectiveness of their programs. It applies the RE-AIM framework to a case study and provides planning questions that align with each component of the framework.

## PHYSICAL ACTIVITY

In partnership with NCOA, we produced seven physical activity issue briefs focused on key aspects of implementing evidence-based physical activity programs. The topics were chosen because of their relevance to community-based practitioners during a process of identifying best practice sites around the United States (including site visits). The briefs cover (1) best practices, (2) keeping current on research and practice, (3) designing safe and effective programs, (4) recruiting and retaining instructors, (5) recruiting older adults, (6) motivating older adults, and (7) maintaining participation of older adults. We also developed a physical activity guide to help community agencies plan, conduct, and maintain effective physical activity programs for older adults. The guide illustrates how the RE-AIM framework can be applied to community programs, with questions for the agency to consider in applying the RE-AIM components, case studies, and resources on how these programs can be put into place in the community.

## MENTAL AND COGNITIVE HEALTH

In partnership with CDC and a practice-based panel of content experts and practitioners, HAN members conducted a systematic literature review of community-based depression interventions<sup>10</sup> and screening tools for older adults.<sup>14</sup> The Program to Encourage Active Rewarding Lives for Seniors is now listed on the searchable National Registry of Evidence-Based Programs and Practices and qualifies as an evidence-based program for Administration on Aging funding. Using data from our workgroup review, the Task Force on Community Preventive Services also recommended home- and clinic-based depression care management for older adults on the basis of strong evidence of effectiveness in

improving short-term depression outcomes. In addition, we produced a series of webinars and action briefs related to depression care management for older adults. These webinars and briefs cover such topics as overcoming stigma in mental health treatment, examples of evidence-based programs for managing depression in late life, evidence-based practices, and program funding and sustainability issues.

We have also done influential work in the area of cognitive health. HAN members participated in the development of a National Public Health Roadmap to Maintaining Cognitive Health. We later conducted 55 focus groups with ethnically diverse participants and 20 focus groups and in-depth interviews with providers and caregivers to examine public perceptions about cognitive health.<sup>15</sup> This work helped to inform public awareness of how ethnically, culturally, and geographically diverse groups think about aging well and “brain health” and contributed to furthering the 44 actions in the roadmap, particularly the “disseminating information” and “translating knowledge” actions. Subsequently, HAN members conducted a systematic review of physical activity/exercise and cognitive performance in older adults.<sup>12</sup> The panel concluded that there was not sufficient evidence that physical activity/exercise improved cognition in older adults. Recommendations for future studies included longer study durations, selecting measures more carefully, and reporting intervention adherence.

## ENVIRONMENT AND POLICY

We created an online community, Creating Aging Friendly Communities, featuring four environmental- and policy-relevant modules, each including a webinar, on-demand presentation, action brief, and facilitated technical support activities. We also developed an audit tool to guide detailed quantitative and qualitative inquiry into community- and street-level factors associated with mobility in older adults and to support community efforts in maintaining an older adult-friendly environment. In addition, we created the Environmental and Policy Change Clearinghouse, a searchable database of resources and tools to inform local efforts in environmental and policy change for healthy aging. The resources included in the clearinghouse were chosen for their relevance and usefulness to aging services, public health, planning, architecture, engineering, recreation, transportation, and health care practitioners. The major topic areas are healthy aging, healthy communities, built environment, and mobility. A panel of experts who conduct research or practice in one or more of these topic areas reviews each resource according to six criteria (e.g., cross-sector approach to the built environment and mobility, focused on older adults or of great universal value, practical and user friendly) prior to inclusion. The clearinghouse received the 2011 APEX Award for Publication Excellence, an annual award sponsored by Communications Concepts, Inc., and given to business, nonprofit, agency, or freelance communicators who create print, Web, electronic, and social media (<http://www.apexawards.com/>). Select resources from the clearinghouse have been integrated into the AARP Livable Communities Web site (<http://www.aarp.org/livable-communities/>).

## USE OF PRODUCTS AND TOOLS

The development of products and tools is one of many HAN activities, and this activity has had varying levels of external funding support or concomitant expectations for monitoring uptake and outcomes. Hence, a limitation of our work is that we often have not had the resources to conduct systematic evaluations of the impact of our products and tools. Nevertheless, we routinely distribute evaluations for many of our online modules, webinars, and practice materials to gauge perceived product quality and utility and provider confidence in using tools. We have learned that modules and webinars have been used for program planning, in in-service training and orientation of new staff and volunteers, in refresher courses, in orientations of community partner agencies, and as documentation of in-service training for performance development. Similarly, anecdotal reports indicate that the HAN issue briefs, monographs, and other print materials are being used in a variety of ways, including as required reading for various academic degree programs (e.g., nursing, public health, gerontology) to support developing public health and aging competencies and as references guiding the strategic approaches community providers employ within health promotion program grant applications.

## SUMMARY

HAN's ongoing funding has provided an infrastructure for substantial capacity and long-term relationships across diverse transdisciplinary perspectives, geographies, and community sectors. We have been able to pool resources and talents and leverage resources, which in turn enhances the credibility of the network with partners and potential funders. This structure has given us greater ability to conduct research, partner with groups and agencies, and develop products for geographically, racially, and ethnically diverse populations. As we move forward, we anticipate continuing efforts to bridge the research-to-practice gap to enhance the capacity of the public health and aging field to meet the evolving demands of an aging population. The expansion of HAN focus areas including mobility and nutrition affords the opportunity to develop tools in these areas as well. The goal of the network is to make a real difference in the lives of older adults, while also generating new knowledge. We hope that the described resources will be useful to a broad audience of practitioners, researchers, and educators and provide linkages to the larger network of collaborators committed to improving the translation of research into practice.

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**Table****HAN Tools and Products to Enhance Capacity for Public Health and Aging Practice\***

<b>Product or Tool</b>	<b>Title and URL</b>
<b>Health promotion practice</b>	
Online training modules	All modules available at: <a href="http://www.ncoa.org/chamodules">http://www.ncoa.org/chamodules</a> Series 1: Introduction to Health Promotion Programs QA: Assuring Program Quality Making the Case for Health Promotion What is EBHP? Assuring Program Quality: Reach and Adoption Assuring Program Quality: Fidelity Assuring Program Quality: Maintenance Series 2: Making Effective Presentations An Introduction to Designing Slides and Delivering Talks Describing Your Evidence-Based Health Promotion Program Conveying Data About Your Evidence-Based Health Promotion Program Series 3: Advanced Tools Creating a Business Plan for Evidence-Based Health Promotion Programs
Monographs	Evidence-Based Healthy Aging Programming: Tools & Checklists: <a href="http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/CHA_Tools_Checklists.pdf">http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/CHA_Tools_Checklists.pdf</a> RE-AIM for Program Planning: Overview and Applications: <a href="http://www.prc-han.org/docs/RE-AIM_issue_brief.pdf">http://www.prc-han.org/docs/RE-AIM_issue_brief.pdf</a>
<b>Physical activity</b>	
Physical activity issue briefs	Each of the URLs begins with the stem <a href="http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/">http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/</a> and ends as noted below. Best Practices in Physical Activity: <a href="http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/best-practices-in-physical.html">best-practices-in-physical.html</a> Keeping Current on Research and Practice in Physical Activity for Older Adults: <a href="http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/keeping-current-on-research.html">keeping-current-on-research.html</a> Designing Safe and Effective Physical Activity Programs: <a href="http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/designing-safe-and-effective.html">designing-safe-and-effective.html</a> Recruiting and Retaining Effective Instructors for Physical Activity Programs: <a href="http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/recruiting-and-retaining.html">recruiting-and-retaining.html</a> Recruiting Older Adults Into Your Physical Activity Programs: <a href="http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/recruiting-older-adults-into.html">recruiting-older-adults-into.html</a> Motivating Participants to Be More Physically Active: <a href="http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/motivating-participants-to-be.html">motivating-participants-to-be.html</a> Maintaining Participation of Older Adults in Community-Based Physical Activity Programs: <a href="http://www.ncoa.org/improve-health/center-for-healthy-aging/content-library/maintaining-participation-of.html">maintaining-participation-of.html</a>
Physical activity guide	Moving Ahead, Strategies and Tools to Plan, Conduct, and Maintain Effective Community-Based Physical Activity Programs for Older Adults: A Brief Guide: <a href="http://www.prc-han.org/docs/monograph.pdf">http://www.prc-han.org/docs/monograph.pdf</a>
<b>Mental and cognitive health</b>	
Task Force on Community Preventive Services	Task Force on Community Preventive Services: <a href="http://www.thecommunityguide.org/mentalhealth/depression-home.html">http://www.thecommunityguide.org/mentalhealth/depression-home.html</a>
Webinars and action briefs	Webinars: <a href="http://www.prc-han.org/tools-cognitive#cogwebinars">http://www.prc-han.org/tools-cognitive#cogwebinars</a> Action briefs: <a href="http://www.prc-han.org/tools-cognitive">http://www.prc-han.org/tools-cognitive</a> Overcoming Stigma Evidence-based depression care management: IMPACT Evidence-based depression care management: PEARLS

Product or Tool	Title and URL
National Public Health Roadmap to Maintaining Cognitive Health <b>Environment and policy</b>	Evidence-based depression care management: Healthy IDEAS Money Matters: Funding and Sustaining Evidence-Based Depression Programming Evidence-Based Mental Health Practices for Older Adults: The Latest Data, Strategies and Funding Options The Healthy Brain Initiative: National Public Health Roadmap to Maintaining Cognitive Health: <a href="http://www.prc-han.org/docs/healthybrainroadmap.pdf">http://www.prc-han.org/docs/healthybrainroadmap.pdf</a>
Presentations, webinars, and action briefs	Four modules, each with presentation, webinar, and action briefs: <a href="http://www.prc-han.org/tools-environment">http://www.prc-han.org/tools-environment</a> Module 1: Introduction to Environmental and Policy Change for Healthy Aging Module 2: Optimal Living Environments for Healthy Aging Module 3: Integrated Approaches to Mobility Module 4: Emerging Environmental Issues in Healthy Aging
Audit tool Environmental and Policy Change Clearinghouse	HAN environmental audit tools and protocols: <a href="http://www.prc-han.org/tools-environment">http://www.prc-han.org/tools-environment</a> Environmental and Policy Change Clearinghouse: <a href="http://www.prc-han.org/tools-environment">http://www.prc-han.org/tools-environment</a>

\* QA indicates quality assurance; EBHP, Evidence-Based Health Promotion; RE-AIM, reach, efficacy/effectiveness, adoption, implementation, maintenance; IMPACT, Improving Mood-Promoting Access to Collaborative Treatment; PEARLS, Program to Encourage Active Rewarding Lives for Seniors; IDEAS, Identifying Depression Empowering Activities for Seniors; and HAN, Healthy Aging Research Network.

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